

1880

Maine Mining Journal v1 [January 2, 1880 - July 2, 1880]

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Recommended Citation

Blanding, E M. and Blanding, W F., "Maine Mining Journal v1 [January 2, 1880 - July 2, 1880]" (1880). *Geology Documents*. 27.
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Maine Mining Journal.

DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

(Entered as second-class mail matter.)

Vol. 1. No. 1.

BANGOR, MAINE, JANUARY 7, 1880.

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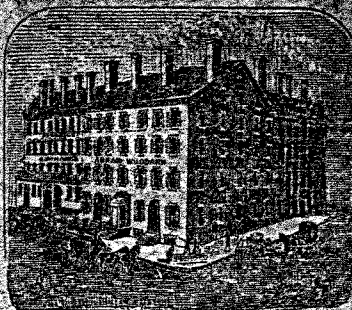
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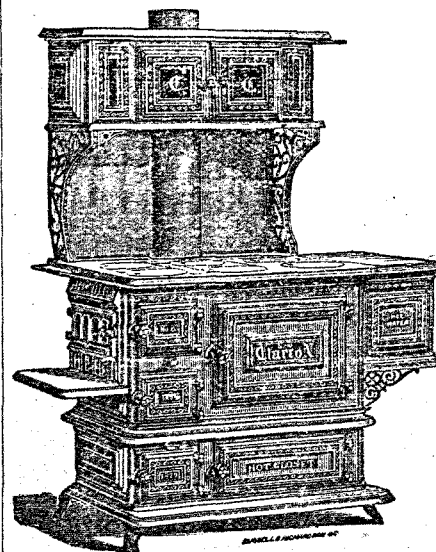
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 2, 1880.

OUR MISSION.

The rapid progress and recent developments made in the mining districts of Maine have proven beyond the shadow of a doubt that the precious metals exist within the limits of the State and in quantities sufficient to warrant their extraction from the impurities and baser metals to which they cling.

But a few short months ago comparatively a small number of persons even in the immediate vicinity of the mines already being worked had any faith in their permanency, considered the whole matter as a scheme devised by sharpers to fleece all who were "gullible" enough to be taken in by their glowing reports, and would lend to the enterprise neither their sanction or financial aid.

On the other hand, various means were adopted to discourage prospecting and development, while many actually seemed to consider it a sacrilege to disturb or attempt to break up the rocky soil where their forefathers had lived and died. Capitalists too in the cities and larger towns of the State treated the matter coldly, looked skeptically upon the men engaged, and berated for lack of wisdom the meager few who had the audacity to invest. The newspapers, with few exceptions did not give the subject the attention a growing industry deserved at their hands, while not a few have attempted to make the whole enterprise and all connected with it a subject for ridicule and contempt.

In the face of so much opposition it is not surprising that the growth of the mining industry in Maine should be a slow and tedious process. It was not until reports of rich discoveries and samples of ores from this vicinity had gradually crept into the notice of capitalists abroad, and geologists and scientific men (notably Prof's F. L. Bartlett of our own State, C. H. Hitchcock of New Hampshire and W. F. Stewart of Nevada) had given the subject their careful attention and reported favorably, that the people were induced to turn their eyes in this direction for profitable investments. The fact that men of well known integrity and business sagacity from Boston and other cities were becoming interested and investing large sums of money, opened the eyes of many to the possibilities of future wealth which lay in this region. Being awakened to the possibilities their next move was to ascertain the probabilities. Accordingly, prospecting was begun and carried on to an extent never before known in this part of the

country, assays giving gloriously rich results were obtained from nearly every pasture where a quartz vein could be found, new companies were organized almost daily, and the indications were that more mining companies would soon be in existence in the State of Maine than on the whole Pacific Slope, when Nature kindly put a stop to further proceedings by covering their prospects and damping their ardor with a mantle of snow.

It is the mission of this journal to show, not by any special statements of its own, but through the information which shall appear from time to time in its columns, that out of this flood of mining companies which have thrust their stocks upon the market, and from among these innumerable "bonanzas" which have been discovered, have come many mines of real value, constantly increasing in richness as depth is reached, which will well repay being worked for the ore at present obtained, and promise at no very distant day to rival the mines of the West.

The most important discoveries and the excitement attendant upon them have been however mainly confined to a small portion of the State, and the majority of the people know as yet little or nothing about them and the developments which have been and are being made in this region. Many even are not aware of the existence of a working mine in Maine, and we have been treated many times during the past few weeks to an incredulous smile upon stating the fact that ore in paying quantities was actually being taken from the earth in certain districts of this State. To those in this immediate vicinity it may seem strange that this is so, but it is not after all really surprising. About the only source of information people at a distance have are the newspapers and they as a rule have had almost nothing to say upon the subject. The idea that rich mines of the precious metals should lie here at their very feet is so contrary to all preconceived notions that the few straggling reports which may reach them from other sources are looked upon with suspicion and unbelief.

There are many individuals (and the number is daily increasing) scattered throughout New England, who have been induced, either by a visit to the mining localities or through the representations of friends, to invest in these eastern mines. To meet the wants of this class, to show from week to week the actual condition of the properties in which they are interested, to furnish readable matter and information to miners and all engaged in developing the mines, as well as to assist in creating a more general and greater public interest and in awakening the people of the State to a further realization of the golden opportunity which is now within their grasp, is the object of this journal. It will however discountenance anything like rashness or undue excitement, but will constantly advocate coolness, moderation, and the application of the same sound principles which should govern all business enterprises, for upon this does the success of the mining industry depend.

In the eager thirst for sudden wealth which is the inevitable attendant upon all discoveries of this character, lies the weak point of human nature, of which shrewd unscrupulous men are not slow to take advantage. Without a doubt, during the next few years many worthless properties will be placed upon the market and men of capital solicited to invest in them. To assist investors in discriminating between honorable and dishonorable companies, and valuable and worthless mines, to deal as fairly and impartially with the buyer as with the seller of mining stocks is our aim, and for this we shall ever strive. Our correspondence will be carefully

scanned and all statements so far as is possible, substantiated by personal observation before being put in print.

Should we be but partially successful in our endeavor to furnish a readable *Mining Journal* adapted to the wants of all classes, we shall look for the cordial support of all who have at heart the true interests of the mining industry in Maine.

It is to be hoped that by the time the ground is again laid bare, all whose eyes have been dazzled and heads turned by the sudden prospects of future wealth, will have recovered their equilibrium, and that mining as a legitimate business will have become established upon a solid and a sure foundation.

Two Species of the Genus Yahoo.

In all new mining districts, we are sure to encounter two types of humanity who are severally and collectively, an abomination. The first of these is the chronic old croaker, who persistently holds to the belief that the earth is flat, simply because he does not drop into space while the planet turns over. This type of the Genus Yahoo, vehemently denies the possible existence of silver mines in this country, simply for the reason that his venerated progenitors failed to detect argentiferous indications, among the pine stumps, half a century ago.

The second type of camp followers, is a credulous fool, and an insufferable blatherskite. This class of individuals holds a vested right in the true philosopher's stone, and every thing which it touches, instantly becomes a golden bonanza. This type of the Yahoo tribe, is really more to be dreaded than the harmless old curmudgeon whose sole stock in trade is a boundless capacity for croaking. Like the exuberant Colonel Sellers, the man of type number two, sees millions in every copper-tinted boulder in the country, and confidently expects to cancel the national debt from the auriferous out-put of a trap dyke. Unfortunately for the embryotic mining interests of Maine, these croaking cronies and jabbering jackdaws are quite numerous all over the state, and by their joint efforts, are doing all in their power to damn all mining enterprises.

Luckily however, there is a third class of men in this country, who are neither cynical growlers, nor blatant enthusiasts; but they are earnest, quiet, thoughtful people, who have sagacity enough to foresee the golden possibilities of the mineral-bearing deposits, and the energy and pluck to engage in the tedious and expensive work of development. Guided by the successful endeavors, and by the hard earned experiences of mining men in other lands, these patient delvers in the depths are sustained by a faith which brooks no puerile opposition from either garrulous croakers, or noisy enthusiasts. It is gratifying to know that many of these enterprising citizens have already reached the point at which their reward is no longer problematical. They have triumphed—not alone over the flinty barriers of nature—but also over the wretched old croakers and drivelling camp followers.

Among the many unbelievers we have met, not one had ever paid a visit to the mines, while on the other hand in not a single instance have we conversed with a man who had seen the properties but expressed himself firmly convinced of their value and permanence.

Maine Ores, and How to Treat Them.

BY F. L. BARTLETT, STATE ASSAYER.

Editor of Maine Mining Journal:

Maine is now the producer of large quantities of low grade silver ores daily. A careful estimation based upon the assays and amount of rock and ore known to be raised actually every day, at this time in our State shows a yield of 250 tons; averaging (12½) twelve and one-half ounces silver and (2) two pennyweights of gold, thus making the total value in currency of

the silver ores mined daily \$4,175, more than enough could the ores be utilized, to pay the running expenses of every mine in the State, good and bad.

Some of this ore on being properly assorted could be made marketable; but the proportion would be exceedingly small, and owing to the difficulties attending its sale, shipping a long distance to Newark or still longer to Swansea or Frieberg, it renders it at once a doubtful operation. So the question suggests itself "How shall we render our ores merchantable?" Unquestionably the best way is to erect at some available point first-class custom mills for both concentration and reduction of silver ores. To build and equip works of the kind necessary to treat our ores would require the outlay of a large amount of money and would require for their successful operation men of long experience and great skill, and not until it becomes a well known fact that we are able to supply such works with unceasing quantities of ore, can we expect anyone to put up the mills.

Very few of our mines if any of them, are yet in condition to erect mills of their own. Indeed there are but few silver mines in the world that run individual smelting works, such works usually being put contiguous to the mines by outside parties. What then for the time being shall we do? Two or three ways suggest themselves; one is, to pile up the ore and wait patiently for further developments, another is to build small, cheap concentrating works, one in each mining district, run on the same principle as the old fashioned grist mill, by tribute or toll, and owned and wholly controlled by parties not interested in the surrounding mines. Such a procedure would result favorably, since each mine could send its ore as fast as mined, and have it concentrated and the product returned. There would be no interruption or bother, and the mining operation could be pushed with all possible speed until ores were obtained of a grade sufficiently high to pay for direct shipment, and even then the concentrator would not be amiss for more or less low grade rock is hoisted from every mine.

As a general thing it is not policy for a mining company to put up concentration works for its sole use, and many good companies have come to grief by attempting to run concentration works in connection with their mining. The fact is, milling, smelting and concentrating ores, are matters different from mining and require skilled labor of a class entirely different in character. It is very much like the position of the farmer who would build his own mill to grind his wheat and corn.

Some of the Maine ores do not need concentrating. They belong to the class known as "free milling" or amalgamating ores. They are of the kind containing little or no lead at all, where the silver is in the form of a sulphuret and perhaps may contain zinc, arsenic or antimony. These ores after roasting with salt may be treated by quicksilver and the precious metal extracted in the form of an "amalgam." The cost of treatment is small and the results good. Very low grade ores may be treated by such a method at a profit. A small well conducted chlorodizing and amalgamating mill would pay handsomely at the present time were it well located, so that the cost of shipment would not be too great.

Probably more attention is now being given to the subject of the treatment of low grade ores, by scientific men, than any other problem before the world. Great advancement has already been made in this direction and any day a method may be discovered whereby we shall be enabled to work ores down to the minimum. Thousands of so called "processes" have been tried and condemned, yet the projectors work patiently on and as fast as one method fails another is brought forward and so it will continue until some fortunate person shall discover the true secret. Meanwhile the Maine mines must continue to pile out their ore and when enough has been accumulated some one will erect the proper mills for the reduction of it.

This wealth that is now accumulating can not be destroyed by fire or water, needs no insurance and is in nobody's

way. Our mines have not reached a depth yet when we can rightly expect "Bonanza" ore; when they do, mills will not be long forthcoming. Many novices in mining think it a fair test to send off a few tons of their best ore for treatment and pay fancy prices for having it done. Nine times out of ten it is only crushed, sampled and assayed and a "brick" returned of the proper size to substantiate the ore, and indeed this is quite as well for it makes but little difference where the silver comes from provided it is there, only the expense might be avoided by simply crushing, sampling and assaying on the ground and the results be quite as good. The point most desired now is the cost of treatment not the assay value.

[From the Chicago Mining Review.]

Mining Papers.

The influence of the local mining press upon a locality is important, perhaps more so than is fully appreciated by such papers themselves. There is now throughout the entire country an active interest in mining that is growing in breadth and intensity, so that every scrap of reliable news from a mining district is eagerly sought for.

It is of the utmost importance therefore at this time that the editors of those journals published in the mining country should most carefully scan every item in regard to mines, strikes, assays, discoveries, etc., that is presented for publication. The people want facts instead of fancy; they demand the actual more than possible—"the truth, the whole truth and nothing but the truth."

It may be very pleasant reading for miner Tom, who has just subscribed for the paper and wants to purchase a few copies to send away, to read that "Tom's mine is one of the best in this district, and he has just struck it rich. Samples assay to the thousands in silver, with a trace of gold. He will probably soon find indications of a true fissure, a mother vein, rapidly widening as he goes down." Such journalism may induce a few other miners to send in subscriptions in order to read their own names in connection with big strikes, but it at the same time will most effectually turn aside capital that is carefully scanning the field and gathering facts to decide upon a basis of action.

Big strikes, large assays and best mines have become so common and unreliable that their announcement has no effect and excites no attention. We have already called the attention of the local mining papers to the importance of giving the particulars of actual developments—real growth of mining, the character and value of ore, mines, and advantages of their respective localities. A letter from a correspondent that reveals wonderful riches in a certain mine, wide vein, inexhaustible supply, rich ore, etc., etc., and condemns all the other mines in the same district as worthless, is certainly suspicious, to say the least, and has no weight with men who, with the money in their pockets, are waiting for facts.

Writers and newspapers must more thoroughly understand the growing interest throughout the whole country in mining and all that pertains to it, and how capital, backed up by energy and capacity and shrewd business sagacity, is waiting to be poured into this industry as soon as the right location is decided upon. Wild stories, extravagant conjectures, flights of fancy as to the possible, pictures of mines throwing up double eagles and diamond rings, have no weight with the men that so many of our mining districts so sadly need at the present time. Such statements and such methods will never attract the class of men to make improvements and confer lasting benefits.

There are hundreds of valuable districts as yet untouched, and thousands of as good mines as the best yet opened, all waiting for development. The fate, for years, of many of these localities will be decided by the influence of the mining papers. If they grasp the importance and magnitude of the interest they represent, and with liberal spirit devote their energies to

the advancement of mining, allowing no selfish or trifling interest to turn them aside from the duty that is due to the cause they have been called to champion, years may be added to the improvements and advantages of the mining country.

The mining interest is so great that it demands a press that shall, in some measure at least, be worthy of its greatness and truly represent it, looking beyond the narrow walls of local or personal interests of the present into the grandeur of its imposing future.

What Others Say.

PROF. F. L. BARTLETT.

"Mining in Maine is fast assuming a position and character of which her inhabitants may well be proud. Our granites, slates and limestones have a world-wide celebrity, and our mines of silver, gold and copper are attracting the attention of capitalists from every part of the union. Mining men of great and varied experience, from the oldest mining districts of the Pacific coast, have come and settled in our midst, and are showing their honest belief in the value of our mineral deposits by spending their time and money in developing them."

PROF. C. H. HITCHCOCK

In a recent paper read before the American Association for the Advancement of Science, at Saratoga, expressed his belief that the copper and silver mines of Maine will become a source of great wealth to the State.

PROF. W. F. STEWART.

"By the merest accident, I floated into the mining region of Eastern Maine, and, after a fatiguing exploration of several of the most important mining districts in the counties of Penobscot and Hancock, I am prepared to assert that this is, of a verity, a promising silver-bearing region. For obvious reasons, I do not intend to mention special properties which I have explored professionally, but I can assure you that I have recently examined mines which for fertility in silver will compare favorably with first-class mining properties in Colorado and Nevada. I brought with me from Sullivan district, this week, a box full of specimens which are literally coated with pure native silver. Of course, these are selected specimens, but average ores upon the dumps are surprisingly rich in the royal metal. Most of the ores in Sullivan district are argentiferous lead ores, containing a small percentage of copper and zinc, but I was gratified to find that, as depth is attained, the base elements are gradually fading out and giving place to compact sulphuret of silver. Some of these sulphuret ores assay surprisingly, but I am afraid to give you the figures lest I shall be set down as either a "bull" or an enthusiast. The people here are already unduly excited over their prospects, and it is wise to warn them against unwholesome inflations. I am perfectly satisfied, however, that if the mine-holders of Maine will keep cool and work their mines legitimately, the time is not remote when this will be a leading bullion-producing section of the country.

C. A. BURGESS OF NEW YORK.

"As a result of careful examination, I conclude that the character and value of the mineral deposits in this section are established beyond a doubt, and a judicious development and working of these mines will give most satisfactory returns."

BOSTON HERALD.

"It is safe to say that not one in fifty of the readers of the Herald has anything like an accurate idea of the discoveries which have been made, and the work which is being done, and the bright prospects of the future of eastern Maine.

NEW YORK MINING RECORD.

"We have personally visited Sullivan, and feel assured that the correspondent of the Boston Herald does not overrate the value of these extraordinary eastern silver mines."

THE ECONOMIST.

"If the State of Maine were in the far West, or in some remote region inaccessible to railroads, there would be far less scepticism regarding the value of its mineral wealth than now prevails. But it has been settled so many years, is so accessible, that to assert that it possesses gold, silver and copper mines, which promise in the not very remote future to prove sources of wealth greater than all its other combined industries, is to invite disbelief and ridicule, not only from strangers, but from the inhabitants of the State itself; and yet such we believe to be the fact."

NEW YORK TRIBUNE.

"If mineral veins like these had been discovered in some remote district in Colorado, in six months' time a settlement of some five or ten thousand people would have sprung up, full of speculators and miners."

BOSTON ADVERTISER.

In reply to the question, "What do you think of the mining outlook in New England?" "That New England is entering upon an era of mining industry; that this industry is beginning to attract universal attention; that it is destined to go on and increase until the tide of emigration is turned this way; that capital is already seeking it as a safe and profitable investment; that it will give employment to the masses; that it will infuse new life into every industry; that it will give fortunes to some and competency to thousands; that to be a director in a New England mining company, will henceforth be regarded as a mark of distinction, and that to have a piece of New England mining stock in one's pocket, will prove a source of considerable financial consolation."

Personals.

L. FOSTER MORSE, Esq., of Boston, is now on a visit to the mines of Hancock county.

HON. GEORGE WALKER, the President of the famous Acton mine, is Mayor of the city of Portland.

MR. WIGGIN, the discoverer of the Acton mining region, has recently been interesting himself in the gold mines of Nova Scotia.

MR. F. S. KNIGHT, Assistant State Assayer, has charge of the Maine State Assay Office in the absence of PROF. F. L. BARTLETT abroad.

MR. E. C. BASSICK, who has attained fame and great wealth from his connection with the celebrated Bassick mine of Colorado, has returned to Maine and taken up his abode for the present in Belfast.

MR. C. C. COUILLARD, of the Boston Herald, visited the Maine mines early in December and several interesting letters from his pen have recently appeared in that extensively circulated journal.

STEPHEN JENNINGS, Esq., Treasurer of the Douglass Copper Mining Company of Blue Hill, left Bangor the latter part of last week for Pennsylvania where he is to perfect arrangements in regard to the large mill which H. Bradford is to make for the Douglass Company.

FRANCIS WORCESTER, Esq., the Bonanza King of Eastern Maine, recently purchased the fine Ellsworth residence of Judge A. P. Wiswell and has removed from Sullivan to that city. Mr. Worcester has been confined to his house by a severe sickness but we understand that he is now much improved.

PROF. W. F. STEWART, of Virginia City, Nevada, arrived in Maine in November. He came east to New York to lecture before the Bullion Club of the Metropolis. He was induced by some of our prominent miners to visit our State. He delivered lectures in the cities of Bangor and Ellsworth. He has made examinations of many of the leading mining properties in the State and has prepared elaborate reports on the same. PROF.

STEWART is one of the leading mining experts of the Pacific Slope and it is fortunate for the mining industry that we have the benefit of his seasonable advice. We are pleased to learn that PROF. STEWART will remain in our State throughout the winter.

Dips, Spurs and Angles.

"There was a young fellow named Knox,
Who concluded to gamble in stocks;
And in twenty-four hours
He swore: 'By the powers,
I'm glad to get out with my socks!'"

An enthusiastic prospector recently exhibited a rich specimen of iron pyrites and announced that he had found a *brass* mine.

The Edgemoggin Silver Mining Company has recently been reorganized and the capital stock increased to \$500,000.

Capt. Charles Deering, of the steamer Lewiston, claims to have found a rich mining property in Sargentsville on Edgemoggin Reach.

The total yield of gold and silver during the first six months of 1879 is estimated at \$33,000,000, of which \$15,000,000 was in gold, and \$18,000,000 in silver.

An exchange tersely states, "A good mine is the best property in the world. Its product always has a steady cash market, and neither panics, fires, floods, or droughts affect it."

A writer in a State paper says "It has just been ascertained that the proverb 'Death loves a shining mark,' is incorrectly translated from the original Sanscrit. The correct wording is 'Death loves a mining shark.'"

The latest tramp lament is: "Yes, mum; wuth a million a week ago; lost it all in stocks. Haven't eaten anything for a month." (A tramp always gets thrown when he wrestles with chronology.)—Boston Transcript.

At present three steamers are touching at Sedgwick. Steamer City of Richmond, plying between Portland and Machiasport, Steamer Mt. Desert, between Rockland and Sullivan, and Steamer Chas. Houghton between Rockland and Sullivan.

The Bisbee Copper Mining & Smelting Company of Blue Hill was incorporated in June last with a capital of \$300,000. During the past month the stockholders of the company met at Belfast and voted to increase the capital to \$500,000.

Three of the Maine mines are listed on the Boston Stock Exchange. They are the Blue Hill Copper, the Douglass Copper and Sullivan Silver Mines. In a brief time a large number of mines from this State will be listed on the Stock Board in Boston.

Raphael Pumpelly, chief of the mining division of the United States Geological Survey, has been entrusted with the task of gathering mining statistics for the next census, and has invited the Portland Society of Natural History to recommend a correspondent to collect such statistics in that neighborhood.

Valuable deposits of slate have recently been discovered in Blanchard. There are numerous slate quarries in Piscataquis county. The slate from these quarries enjoys a high reputation in the leading markets of the world. THE MAINE MINING JOURNAL will from time to time publish much of interest in regard to this important industry.

At the Belcher is the longest rope in use in America. It lacks but eighty feet of being a mile in length, 5,200 feet long. It runs from the reel on the incline engine over the sheave down to the nine hundred foot level vertically, thence it takes the incline till the perpendicular depth of over 2,960 feet is attained, the incline having passed the level. It takes one hundred and seventy-one feet of rope to run the incline for every one hundred feet of perpendicular depth.

The pioneer silver brick, of any considerable size, made from Maine ores, has been received and is on exhibition at the office

of C. C. Burrill in this city. The brick is from Crooke's Refining and Smelting works, New York, and is made from the ore of the Gouldsboro mine, of which Mr. Burrill is the treasurer. It weighs between 31 and 32 pounds and is valued at something over \$450.—[Ellsworth American.]

This brick is now in the possession of Mr. Thomas Dalby, 93 Chauncey St., Boston. It is soon to be placed in the window of Shreve, Crump & Low, Washington St., Boston.

Geo. O. Hooper of Sullivan met with an experience some time since which he does not care to repeat. The pumps had given out and the water in the shaft risen to such an extent as to flow into the drifts to the depth of 8 or 9 feet and putting a stop to the work. It was consequently deemed necessary to remove the water by bailing. Mr. Hooper was standing on the ladder engaged in this process when he heard the other bucket which by some means had become disengaged coming down the shaft. Realizing that his only chance for safety was to "stand from under," he made a jump for the drift. Of course his lamp was immediately extinguished and he was left at a distance of 85 feet from the surface of the earth, in total darkness, with nothing for his feet to rest upon and encumbered by rubber boots and a heavy oiled suit of clothes. By a peculiar good fortune however a pile of ore had been thrown up at the end of the drift and upon this he at last found a footing where he remained well nigh exhausted till assistance was rendered him from above.

A Pleasant Occasion.

One of the pleasantest occasions which we have ever attended was the marriage of PROF. FRANK LESLIE BARTLETT to MISS HATTIE WHITTIER BALDWIN at Bangor on Wednesday Dec. 18th. The happy ceremony took place at four o'clock in the afternoon at the spacious residence of the bride's father, E. P. Baldwin, Esq. The gathering was a very brilliant one. The large house was filled with invited friends who were elaborately arrayed. The ceremony was performed by Rev. Cyrus Stone D. D. of Bangor. After the ceremony, the happy couple received the hearty congratulations of the many friends assembled. The presents were numerous and very costly. Among them, were the following: a complete silver service of 6 pieces from the Mineral Hill Mining Company, a swinging ice pitcher from Mrs. Fred Atwood of Winterport, a dozen silver coffee spoons from Mr. and Mrs. J. A. Strout of Portland, silver mustard and salt spoons from Mr. and Mrs. I. S. Emery of Bangor, complete china dining set of 67 pieces from Mr. and Mrs. John S. Morris of Portland, pearl and gold mounted opera glasses from Hon. Frederick M. Laughton of Bangor, silver butter plates from Mr. F. S. Knight and Canova's complete works containing over 200 heliotypes and engravings from Mr. Charles H. Lewis and Mr. Wm. D. Lewis of Boston. The newly married pair left Bangor on the evening of the wedding and on the morning of Saturday, the 20th, sailed from New York in the Luman Steamer "City of Berlin." A telegram was received on Tuesday last announcing their safe arrival in Liverpool. Their trip abroad will be about three months in length and the time will be passed principally in England and in Germany. Prof. Bartlett and his beautiful wife have the best wishes of a host of friends.

"Maine Mines."

We acknowledge the receipt from Prof. Bartlett of his work entitled the "Mines of Maine." The publication is one of great merit and is worthy the perusal of every one interested in this important and rapidly growing industry. Nothing but a pressure of other matter keeps us from making an extended review of this valuable contribution to our mining literature and in an early number we shall endeavor to do it full justice. The price of the work is only 25 cents and it can be obtained of Mr. F. S. Knight at the Maine State Assay Office in Portland or at the MAINE MINING JOURNAL Office in Bangor.

WEEKLY NEWS FROM THE MINES.

In this department it is proposed to give each week a brief summary of the progress made wherever within the State mines are being worked or shafts operated. We have recently visited the Cherryfield, Gouldsboro, Sullivan and Blue Hill districts, and feel that we can speak of the properties in these localities with some degree of confidence although our stay in these places was necessarily very brief. It is our intention to visit all the mines in the State as often as it is possible for us to do so, and in addition to this we earnestly solicit superintendents or others connected with the work to furnish from time to time all the information and actual facts which shall assist in showing up their properties. Space forbids us this week, giving much more than a passing notice of the principal mines of the State, but hereafter we shall endeavor to publish with each issue an article descriptive of some particular mining property, with a history of its progress from its discovery up to the present time.

CHERRYFIELD.

Cherryfield is situated in the western part of Washington Co. about six miles from the steamer landing at Millbridge. The village is pleasantly located and contains a good hotel, the Cherryfield House. The mineral bearing deposits in this vicinity are among the more recent discoveries in Eastern Maine.

CHERRYFIELD SILVER MINE. This property is situated nearly a mile from the village on the road leading to Harrington. Ore was first discovered cropping out on the hill, and a shaft was sunk 15 or 16 feet with good results, but the finding of a huge boulder of almost solid ore at some distance below, supposed to have been blasted from the ledge during the construction of an old drain, led to a cross-cut being made, the vein about a foot in width being struck and a shaft started about 800 feet from the old site.

For the first 25 feet the ore taken out was mainly zinc and very heavy. The ore then suddenly disappeared, but was again found 6 feet below consisting of galena very rich in silver and carrying scarcely a trace of either zinc or copper. This continued to within about 10 feet of the present working when it again disappeared. Already the character of the rock, and the "stringers" running through it indicate the proximity of ore, and the expectations are that when again struck it will prove richer than before. Progress is now made at the rate of 1½ feet every 24 hours, and a few days labor may produce startling results.

Mr. W. A. Leonard, the efficient superintendent, makes his own assays on the ground, and has obtained results ranging from 12 to 220 ounces silver per ton, averaging about 60. About 25 tons of ore have been taken out, a portion of which has been shipped for reduction.

The perpendicular shaft is 40 feet in depth and well timbered; the incline about 32 feet the bottom being 75 feet from the surface and 55 feet into the solid ledge. It is proposed to go down 100 feet and then drift.

Substantial buildings have been erected, a shaft-house and blacksmith shop, another building comprising ore shed, office, assay room, and a powder house. Steam machinery is intended early in the spring. The company employ 12 men, a night and a day crew. Pay roll \$500 per month.

BRITTON MINE. On the Harrington road about two miles beyond the Cherryfield Silver Mine is "Brittons' Mine." This vein was discovered and operations commenced early in September by Messrs. Geo. Britton and C. E. Day, who have worked it entirely alone, until recently other parties (C. C. Campbell and A. Campbell & Co.) have joined them and work on the shaft is being rapidly pushed. A depth of 25 feet has been reached and the ore shows considerable sulphuret of copper, and some galena carrying silver, which seems to be increasing in quantity.

The vein is 6 feet wide at the surface and the walls are perfect. Shaft-house and blacksmith shop have been erected.

SEVERAL PROSPECTING SHAFTS have also been put down in the town of Harrington by Francis Worcester, Esq., which will be further operated upon in the spring.

GOULDSBORO.

Gouldsboro is distant from Cherryfield about 12 miles, on the road leading to Sullivan, is situated at the head of what is known as West Bay, and has a good hotel, the Bay View House.

GOULDSBORO SILVER MINE. This is located upon a small stream leading into West Bay, and about half a mile from the village. An open cut was first made into the ledge for about 70 feet, and a large quantity of valuable ore removed. The bottom of the cut is still a solid mass of ore, but work has been discontinued until spring, when the cut will be pushed forward to meet the shaft which is situated about 50 feet distant. The shaft has now reached the depth of upwards of 40 feet, slightly on the incline, and will be continued to 125 feet where the first level will be started. As may be seen by noticing the sides of the shaft, this vein, as is frequently the case, alternately contracts and expands in width both vertically and laterally. Strange to say the ore is invariably richest soon after it begins to widen. A "pinch" of this character has just been reached and consequently no ore of any importance is taken out at present. About 300 tons are on the dump awaiting the erection of the concentration works in the spring.

The property of the company consists of a shaft-house, ore shed, office and blacksmith shop and full steam machinery, comprising a 15 horse power hoisting engine and boiler and a Burleigh drill. The superintendent is Mr. W. I. Valentine, a gentleman of extensive experience in the mining districts of the South.

HOME SILVER MINE. Situated about the same distance from the village as the Gouldsboro in the opposite direction. The first shaft was sunk to a depth of 70 feet on what has since proved to be a spur of the main vein, is now full of water and has been abandoned till spring. Shaft No. 2, on the vein, is now being worked by a night and day crew at a depth of 35 feet. Very good ore has been taken from the old shaft, and some taken from No. 2 within a week presents a fair showing. It is proposed to drift at 125 feet. Substantial buildings are erected over each shaft. About 80 tons of ore have been taken out. Steam machinery has been ordered. The work is under the supervision of Mr. Francis Worcester, Jr.

SOWLE & WEST SILVER MINE. On the shore of the bay and supposed to be upon a continuation of the Gouldsboro vein is the Sowle & West property. One shaft is in progress, but with what results we have not learned.

GLOBE SILVER MINE. Situated at Bluff Head, across the bay from Sowle & West's mine, on the same vein, and is about to be incorporated. The present owners are O. H. Perry, G. M. Gibson, G. A. Gibson, M. J. Canavan of Boston and E. G. Johnston of the Pine Tree Mine at Sullivan. The shaft has been sunk about 12 feet and some very fine ore taken out. The vein is 18 inches wide at the surface and has increased to two feet.

The property embraces about three-quarters of a mile on the vein.

F. H. CLERGUE AND BERNHARD POL of Bangor have been operating a short distance below the Globe property and on a continuation of the vein, with good results.

VICTOR SILVER MINE. Messrs. Clergue & Pol have also another property in the town of Gouldsboro, and distant from the "Home" Mine about two miles. It is about to be incorporated under the name of the "Victor." We shall furnish further information concerning it hereafter.

SULLIVAN.

The silver mining interest centres at Sullivan, as here was made the first discovery of silver in this district, and the earliest

silver mine in the State started. The discovery was made in May, 1877, by Mr. A. A. Messer, at present foreman of the Sullivan mine. There are now six of the most prominent mines in the State, situated within a line of half a mile in extent, in the centre of the village. Sullivan is a most picturesque resort, and has a fine summer hotel, the Waukeag House kept by Messrs. White Bros., with accommodations for upwards of one hundred and fifty guests. It is beautifully located at the head of Frenchman's Bay, directly opposite Bar Harbor, and commands a fine view of the mountains of Mt. Desert.

ASHLEY SILVER MINE. Starting out from the Waukeag House, we come to the "Ashley" mine, the first on the Sullivan vein. The shaft has reached a depth of 90 feet, has been carried straight downward instead of following the dip of the vein, and as a consequence is now about 20 feet below it. The intention is to continue perpendicularly to a distance of 125 feet and then drift. The shaft for 55 feet has a twelve inch timbering and is 6 by 12 feet inside.

A hoisting engine of 25 horse power is in operation, and other steam machinery is soon to be added. Substantial buildings are erected, and some very good ore has been taken out. Mr. Wendell Horne is superintendent.

MILLBROOK SILVER MINE. One thousand feet below on the same vein is the "Millbrook." The shaft is down 60 feet, partially timbered and is now full of water, work having been discontinued for some time. The ore which has been removed is similar to that of the "Ashley." The property has been recently sold, and the company was incorporated last week. Steam machinery has arrived, buildings are being put up, a night and day crew are to be put on immediately, and developments will be rapidly pushed. Mr. Sidney E. Horne has the work in charge.

MILTON MINING AND MILLING CO. The property of this company is situated on the shore a short distance below the "Millbrook," and comprises 1500 linear feet of lode. The buildings and machinery are of the most modern and approved patterns, and the *Economist* says "are the most elaborate east of the Comstock." Two shafts are in progress, but they have not yet arrived at the depth where it is proposed to cut the vein. Much of the "country rock" which is being taken out, is well mineralized and is really good milling ore. Over shaft No. 2 has been erected a three story building, 101 by 32 feet. This shaft is down 60 feet in double compartments, cemented to make water tight, and is cribbed up to the second floor. Over it stands a huge gallows frame for hoisting, 35 feet high, built of 16 by 18 inch Southern pine timbers, and weighs, 6½ tons. The ore will be brought up in cars placed upon a cage. A track is laid over which the cars will run from the mouth of the shaft to the scale-house at the end of the building, and the contents dumped into a car which rests upon the scales where it is weighed, and is in turn run out upon another track to the mill. This building contains a boiler and engine of 50 horse power, and about 150 feet distant is the handsome chimney, circular in form, eighty feet in height and ten feet in diameter at its base. A portion of the building is also devoted to a carpenter shop, a machine shop for the repair of tools and machinery, and a bath room, hot and cold water, for the use of the workmen. Shaft No. 1 is down 100 feet and some distance below the vein. The drifts will be started at 125 feet. The shaft-house is 20 by 44 feet and a 35 horse power hoisting engine has been built in Cambridgeport, and will arrive this week. A gallows frame of the "Cornish" pattern is also here in process of construction. The ore will be removed in a similar manner as at No. 2 shaft, and the cars will run out upon trestle work to the scales and from thence to the mills beyond. The machinery for the 40 stamp mill is nearly ready, and the building, 75 by 35 will be at once erected. Other buildings connected with the establishment are, a blacksmith shop 20 by 36 and an assay room and office 55 by 20 two stories. Pure water is supplied through pipes leading from the hills nearly a mile

distant. The company employs upwards of 50 men. Mr. Robert Mullen is foreman.

The completeness of all the departments as well as the thorough and substantial manner in which everything is built, is due to the energy, enterprise and careful supervision of Mr. John Shoenbar who has had the work in charge. Mr. Shoenbar has had many years experience on the Pacific coast and is a thorough master of his profession. We shall soon describe this property more fully and at greater length.

PINE TREE SILVER MINE. Next on the lode comes the "Pine Tree" mine. The shaft is down 125 feet with a cross-cut of 27 feet to the vein. Steam hoisting and pumping machinery is in operation, and the company is about to be incorporated. Mr. E. G. Johnston is superintendent. Further information will be given in a future issue.

SULLIVAN SILVER MINE. This is the oldest mine of the district. The old shaft which has reached a depth of 175 feet is not at present being worked below the 85 foot level, and shaft No. 2 is down about 30 feet. The original followed the dip of the ledge, while the new one has been sunk straight down. In the drifts, the eastern of which is 110 feet long and the western 140 feet, the slate and rock has been removed from the sides of the vein leaving a solid mass of ore 9 feet across, and estimated at upwards of 7000 tons, ready to be taken out. About 1700 tons are now on the dump awaiting the completion of the Milton Co's mill. Steam machinery is used and the buildings comprise shaft-house, ore sheds and offices. The company own 650 feet on the vein. B. P. Tilden, superintendent.

WAUKEAG SILVER MINE. This property embraces 750 feet of lode. The shaft has been sunk 104 feet and it is proposed to cut the vein at 150 feet. Full steam machinery is in operation, and the buildings which are substantial, consist of an ore house 100 by 45 and shaft-house 25 by 40. C. W. Kempton, M. E. is superintendent.

HANCOCK SILVER MINE. Across the bay, distant from Sullivan about 3 miles, in the town of Hancock and on the western extension of the Sullivan vein, is situated the "Hancock" mine. There are 10 veins on this property, on one of which a shaft has been sunk to a distance of upwards of 100 feet. F. W. Doughty, superintendent.

ROBERT EMMET SILVER MINE. This mine is located at the head of what is known as "Egypt Bay." The shaft has been sunk 30 feet and covered by a frame building 16 by 26. Prof. Stewart in his report on this property says "The quartz vein is strongly mineralized with yellow copper pyrites and sulphuret of iron with occasional crystals of galena. The adjacent schists are also strongly impregnated to the distance of several rods on either side of the quartz vein with copper pyrites; green and blue carbonates of copper; native copper and seams of compact graphite. In very brief, the entire zone is at this juncture, a thoroughly mineralized mass of copper bearing rock, and according to assays made by reliable parties, the quartz vein-stone, as well as the cupiferous schists, contains from a mere trace to 42 ounces of silver per ton of rock."

P. Mullen, Superintendent.

GRANT SILVER MINE. The property of the "Grant S. M. Co." is situated on the western shore of Frenchman's Bay, about 3 miles below Sullivan, and includes 3 well defined veins. A shaft has been sunk to a depth of 40 feet, which it is expected will strike the ledge at about 75 or 80 feet.

Startling discoveries have been recently made upon this property, but for want of space, we are compelled to forego speaking of them at present.

THERE are also quite a number of other mines in this district, at some of which, considerable progress has been made in development. Of these we shall take occasion to speak in the future.

BLUE HILL.

Blue Hill is situated in the southern portion of the county of

Hancock at the head of Blue Hill Bay. The discovery of copper was first made in the spring of 1876 by Mr. Wm. H. Darling. Blue Hill has since been gradually gaining prominence as a mining region and now occupies a very high place in the estimation of experts and capitalists. In future numbers we shall describe very fully this interesting locality.

BLUE HILL COPPER MINE. This is the pioneer mine of this locality. Mr. B. O. Cutter, the enterprising superintendent, is a man of long mining experience in the West. The property of the company embraces a good mill for the reduction of ore, and numerous other buildings. The shaft-houses, blacksmith shop and engine house have been recently completed. Two shafts are sunk on the property. Shaft No. 1 has reached a depth of between 70 and 80 feet. Several copper veins have been cut. Workmen are now drifting and "stoping" on one of these veins and taking out very good sulphuret of copper. Shaft No. 2 is down 40 feet. A tunnel has been pushed some distance into Fisher Mountain but this work will not be prosecuted further for the present.

DOUGLASS COPPER MINE. This mine has recently attracted a great deal of attention. Two shafts have been sunk. Shaft No. 1 is down over 80 feet and workmen are drifting east and west on the vein which is over 18 feet in width. Shaft No. 2 is 100 feet east of shaft No. 1. This is being sunk on the hanging wall of the vein and ore containing considerable silver is being removed. It is proposed by drifting to connect the two shafts. About 9000 tons of ore now lie on the dump. Several carloads of ore were shipped to Baltimore Smelting Works and good results were obtained.

ATLANTIC COPPER MINE.—This is located between the Blue Hill and the Douglass Mines. The property is one of very large size and embraces about 1500 feet on the veins. During the early fall a cross cut was made and then the sinking of the shaft commenced. In the past few weeks very rapid progress has been made. Buildings have been erected and twin engines and a boiler of large size have been obtained. The vein will soon be struck in the shaft and rich ore is expected.

BISBEE COPPER MINE.—The property lies to the north of Blue Hill Mine. The shaft is now down to a depth of over 40 feet. Handsome ore is being taken out. The poorest is good milling ore and the best is rich peacock ore. The manager, Mr. Brown, recently discovered some rods to the north of the vein on which the shaft is being sunk another vein of promising ore.

STOVER HILL COPPER MINE.—The mine is located on a hill to the east of Fisher Mountain. The work of sinking a shaft has progressed under many disadvantages. The hill was capped with rock composed largely of iron pyrites. The rock was very hard and slow progress was made. The work of sinking continued and after the depth of fifty feet was reached some copper was discovered. The shaft is now down about eighty-five feet and a vein of very rich sulphuret of copper has been reached.

TWIN LEAD COPPER MINE.—This is one of the most recently organized mines. The property of the company embraces one-half of the celebrated Swazey property lying to the northeast of the Blue Hill Mine. The work of sinking the shaft commenced on Monday, Dec. 15th. The shaft is being sunk at the rate of one foot per day of twenty-four hours, and has now reached a depth of twenty feet. Quantities of handsome peacock copper are being taken from the shaft.

BANGOR AND BLUE HILL COPPER MINE.—This mine is located at the Falls some distance to the southeast of Stover Hill. Good progress has been made and the shaft is sunk to considerable depth.

DARLING SILVER MINE.—The discovery was made during the fall, of veins of silver ore on the Gray property some distance to the west of the Douglass. Mr. B. O. Cutter opened one property, and another property to the west of Mr. Cutter's has been organized as the Darling Silver mine. It has been thoroughly prospected and three well mineralized veins discovered. A cross cut has been made and the sinking of a shaft will soon commence.

YOUNG HECLA COPPER MINE.—A company is about to be or-

gal. to work the other half of the Swazey property and is to be known as the Young Hecla Copper Mining Company.

WELCOME MARY COPPER MINE.—A property in the vicinity of the Bangor and Blue Hill Mine is to be organized under the title of "Welcome Mary."

A property to the east of Blue Hill Bay has been purchased by Bangor parties. Veins of Copper are found on the property.

SEDGWICK AND DEER ISLE.

EDGE MOGGIN SILVER MINE.—Work commenced at this mine in 1876. The mine is located in the town of Sedgwick on the shore of Edgemoggin Reach. Elaborate smelting works have been erected. The company has been recently re-organized and it is proposed to push the work.

DEER ISLE SILVER AND GOLD MINE.—The company was organized during the past summer. The mine is situated on Deer Isle. The shaft is now down to a good depth. The ore increases in value with every foot in depth. The last assay of ore from the mine was gold \$30; silver \$60; copper \$10; lead \$17; and nickel a trace.

KNOX COUNTY.

RIVERSIDE SILVER MINE.—The property is located near Camden on the west shore of Penobscot Bay. The company was organized some months ago. The ore is galena containing silver. Mr. Frederick R. Page, of Boston, is superintendent.

OWL'S HEAD SILVER MINE.—The mine is situated in South Thomaston. The company was organized in Bangor. Numerous specimens of ore from the mine have been exhibited in this city.

ACTON.

The Acton mineral belt is located in York county in the western part of the State. There are numerous mines located on the belt.

ACTON SILVER MINE.—This mine has gained considerable celebrity during the past few months and the stock has been quite a favorite in the market. Two shafts have been sunk on the property. Suitable shaft houses have been erected. An assay taken from shaft No. 1, at the depth of thirty five feet was silver \$56.13; lead \$48.10; total value \$104.23.

DURIGO SILVER MINE. This is the oldest mine of the belt. The company was incorporated about a year ago. Work has progressed during the season and the shaft is now over eighty feet in depth. Two engines have this week been secured and work will be pushed.

FOREST CITY SILVER MINE.—The property is known as lot No. 10, and is north of Portland Acton Company. A cross cut on the vein has been opened. A shaft is being sunk. Mr. Gardner Floyd, the well known submarine contractor, is superintendent.

PORTLAND ACTON SILVER MINE.—A day and night crew is being employed in sinking a shaft on the property of the company. But one shaft will be sunk before spring. Work will be pushed through the winter.

PENOBSCOT COUNTY.

Scattered through Penobscot county are many rich finds of minerals. Many of these are being rapidly worked. In other cases operations have ceased till spring.

HAMPDEN SILVER MINE.—The mine is located in the western part of the town of Hampden, adjoining Bangor on the south. Operations were commenced last summer. The mine has been generally known as the Dunton. A substantial blacksmith and engine house was erected early in the fall. A perpendicular shaft has been sunk to a depth of over ninety feet. The vein has been struck and found to be nineteen feet in width. Good ore is being taken out.

LAWRENCE SILVER MINE.—This property adjoins the Hampden Mine on the south. Considerable stock has been sold and it is proposed to organize very soon and commence operations. Prospecting holes have been sunk on the property.

FOWLER SILVER MINE.—It is the intention of the owners of this mining property to organize soon. The property is on the same vein as the Hampden Silver Mine, and directly north of it.

QUEEN CITY SILVER MINE. The mine is situated in the suburbs of Bangor, two and one-half miles from the city. The sinking of

the shaft has recently commenced. A day and night crew is being employed. It is claimed to be on the same vein as the Hampden mines.

MOUNT PLEASANT SILVER MINE.—The mine is situated in the western portion of the town of Levant, and previous to its incorporation was known as the McKusick mine. A shaft has been sunk to some depth. Assays show both gold and silver.

HARRINGTON SILVER MINE.—This mine is situated in Carmel to the west of Bangor. The property, which is a large one, comprises two well mineralized veins. A shaft is now down twenty-five feet and the ore has rapidly improved. A contract has already been made to sink the shaft to a depth of fifty feet. A suitable shaft house has been erected and work will progress during the winter.

THE LEVANT SILVER MINE.—The mine is situated in Levant near the village. Antimony has been found and it is hoped when depth is reached that antimonial sulphuret of silver will be discovered. It is proposed to organize soon.

CORINNA SILVER MINE.—During the early fall people were startled by the discovery of rich argentiferous deposits in Corinna. Large quantities of galena were found on the surface. For some time the vein could not be found, but a cross cut two hundred feet in length was recently made and it is reported a vein of fifteen feet in width was found.

DEXTER SILVER MINE.—Operations have closed for the season. In the spring it is proposed to put in steam machinery and push the work of development.

SOMERSET COUNTY.

Several mines are being worked in St. Albans. In Palmyra the Mineral Spring Silver Mining Company is pushing operations.

WALDO COUNTY.

FORT KNOX SILVER MINE. Many years ago a mine was opened in the town of Prospect on Penobscot River, and worked for lead. Dr. Fellows is now working it for silver, and the shaft has reached a depth of over sixty feet. It is known as the Fort Knox Silver Mine.

Maine Mining Exchange.

The Maine Mining Exchange was established in Bangor early in the fall. Mr. Isaiah S. Emery, the proprietor, exhibited much pluck and enterprise in the establishment of this institution in our midst. The Exchange is centrally located has been thoroughly fitted up and is a handsome and finely appointed place. During the past few months auction sales have been held weekly. A branch office is about to be opened in Boston. A large and handsome office is being fitted up at the corner of Exchange Place and Congress Street in that city. It will be under the charge of Mr. Cyrus Emery, a brother of the proprietor of the Bangor Exchange, and Mr. Wm. H. Adams. Auction sales will be held daily.

Closing Sales at Boston Stock Exchange,

FOR THE WEEK ENDING WEDNESDAY, DECEMBER 31st, 1879.

Name.	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
Blue Hill Copper,	7½	7½	.....
Calumet & Hecla,	252½	291	.....
Central,	59	.....	.....
Cop Falls,	4½	4½	.....
Duncan Silver,	5	5½	.....
Franklin,	28½	28½	.....
International,	50c	60c	.....
Orford,	8½	8½	.....
Osceola,	23	34½	.....
Pewabic,	35	35	.....
Quincy,	29	29½	.....
Ridge,	7	7½	.....
Silver Islet,	22	21½	.....
Star,	13	2	.....
Sullivan,	13	14	.....

Closing Sales at Bangor Mining Exchange.

Name.	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
Acton,	14c	.....	.....	15c
Atlantic,	1.40	.....	.....	1½
Darling,	50c
Portland Acton,	15c
Harrington,	bid 18c

Our San Francisco, and New York Stock Sales are unavoidably crowded out of this issue.

ACTON SILVER MINING COMPANY. ACTON, Me. Incorporated, Oct. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
MR. COFFEY, Supt.

AMMONOOSUC COPPER MINING COMPANY, Bath, N H Incorporated, under laws of State of Maine, Dec. 1879.
Capital Stock, Shares.
President, E. Dana, Portland; Treasurer and Secretary, Geo S Winn, Portland; Directors, Edmund Dana, Jr., John S Morris, E L O Adams.
E L O ADAMS, Manager

ATLANTIC COPPER MINING CO, BLUE HILL, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, Walter Haley, Winterport. Directors—F. M. Laughton, Bangor; H. Gregory, Jr., Rockland; C. P. Dixon, N. Y.; Walter Haley, Winterport; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.
EDWARD LE PROHON, Supt.

ASHLEY SILVER MINING COMPANY, SULLIVAN, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Wendell Horne, Sullivan. Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

BANGOR & BLUE HILL COPPER MINING CO, Blue Hill, Me. Incorporated 1878.
Capital, \$250,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.
H. P. BLOOD, Supt.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manering Emery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindie.
A. I. BROWN, Manager.

CHERRYFIELD SILVER MINING COMPANY, Cherryfield, Me. Incorporated, Sept., 879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CORINNA SILVER MINING COMPANY, CORINNA, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 31,000 Shares.
President, George R. Lancaster, Bangor. Treasurer, L. Strickland, Bangor. Secretary, B. B. Thatcher, Bangor, Directors—George R. Lancaster, B. B. Thatcher, A. H. Thaxter, W. H. Strickland, W. P. Hubbard, George F. Dillingham, Wm. H. Darling.
WM. H. DARLING, Supt.

DARLING SILVER MINING COMPANY, Blue Hill, Me. Incorporated, Nov., 1878.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Frank P. Wood, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr W. K. Knowles, Bangor. Directors—Frank P. Wood, Dr W. K. Knowles, V. Darling, H. Clergue, C. F. Bragg, C. H. Huckins, W. F. Hubbard.
EDWARD LE PROHON, Supt.

DEER ISLE GOLD AND SILVER MINING CO., Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson, F. L. Bartlett.
CHAS W BRYANT, Supt.

DIRIGO SILVER MINING COMPANY, ACTON Me. Incorporated, Jan. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, I F Cloutman, Farmington, N H; Treasurer, Elerson O Curtis, Farmington, N H; Secretary, E H Hayes, No Lebanon, Me. Directors, I F Cloutman, J O Nute, John M Berry, Alonzo Nute, Elerson O Curtis, Geo A Jones and Rufus B Foss.
MR GOULD, Supt.

DOUGLASS COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm D. Swazey, E. C. Arey, George Walker, Nathan Crowell.
HENRY GREGORY, Supt.

EDGE MOGGIN SILVER MINING COMPANY, Sedwick, Me. Incorporated, June, 1877; re-organized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Capt. Chas. Deering, Cape Elizabeth. Treasurer, Alfred Haskell, Secretary, John S. Morris, Portland. Directors—Capt Chas. Deering, A. P. Currier, S. D. Leavitt, W. H. Sargent, Wm. R. Page.
Office of Company, 22 Exchange St., Portland, Me.
Supt.

FOREST CITY SILVER MINING COMPANY, Acton, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland. Treasurer, John W. York, Portland. Secretary, Henry S. Ridlon, Portland. Directors—Hon James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Baker, James E. Sturges, Benjamin Barnes Jr.
GARDNER FLOYD, Supt.

GARDNER MOUNTAIN COPPER MINING CO, Littleton, N H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Samuel Atwood, Winterport, Me; Treasurer, Henry T. Sanborn, Winterport, Me; Secretary, Walter Haley, Winterport, Me; Directors, Samuel Atwood, Hanson Gregory, Jr., E C Arey, Walter Haley, Henry T. Sanborn, John Atwood, G B Putnam.
Supt.

GOULDSBORO SILVER MINING COMPANY, Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

GRANT SILVER MINING COMPANY, Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. B. Hopkins, Ellsworth; Directors, Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullen, and E. P. Reed.
MR. MULLEN, Supt.

HAGAN SILVER MINING COMPANY, Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Dr. Alex. Fulton; Treasurer, Samuel J. Morrison; Secretary, Geo. W. Fiske; Directors, Dr. Alex. Fulton, Dr. I. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.
Supt.

HARRINGTON SILVER MINING COMPANY, Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
Supt.

HAMPDEN SILVER MINING COMPANY Hampden, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon F. M. Laughton, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.
GEORGE DUNTON, Supt.

HANCOCK SILVER MINING COMPANY, Hancock, Me. Incorporated, May, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, J. G. Webster, Boston; Secretary, F. W. Doughty, Sullivan.
F W DOUGHTY, Supt

HOME SILVER MINING CO., GOULDSBORO, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, R. T. Sprague, Boston. Treasurer, Francis Boyd, Boston. Secretary, F. Worcester, Jr., Sullivan. Directors—R. T. Sprague, Francis Boyd, A. F. Emery, Samuel Oxnard, F. Worcester, Jr.
F. WORCESTER, JR., Supt.

LETETE SILVER MINING COMPANY, Letete, N B Incorporated, Nov. 1879.
Capital, \$100,000; Shares, \$1 each; Treasury Fund, 10,000 Shares.
Supt.

LONG STAR GOLD AND SILVER MINING CO., Woodstock, Me. Incorporated, Feb., 1877.
Capital, \$250,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, A. C. Dennison, Mechanic Falls, Me.; Treasurer and Secretary, Hon J. L. H. Cobb, Lewiston; Directors A. C. Dennison, J. L. H. Cobb, C. S. Barker, C. M. Cram and C. D. Bradbury.
Supt.

LUBEC SILVER MINING COMPANY, LUBEC, Me Incorporated, d. 1851.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
Supt

MAINE SILVER MINING COMPANY, Dexter, Me. Incorporated, Feb. 1875.
Capital, \$250,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
Supt

MILBROOK SILVER MINING COMPANY, Sullivan, Maine Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 20,000 Shares.
President, Hon L. Foster Morse, Boston. Treasurer, Gardner, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—Hon L. F. Morse, Gardner, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY, Sullivan, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, J. D. Prescott, Boston, Mass; Treasurer, G. E. Harrington, Salem, Mass; Secretary, W O Arnold, Bangor;
JOHN SHOENBAR, Supt.

MINERAL HILL MINING COMPANY, EAST Wakefield, N. H. Incorporated under laws of State of Maine, May, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Smith, Winterport, Me. Treasurer, A. E. Fernald, Winterport, Me. Secretary, Walter Haley, Winterport. Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; T. B. Chisholm, Boston; Walter Haley, Winterport; H. B. Eager, Boston; Hon F. M. Laughton, Bangor.
PROF. F. L. BARTLETT, Portland Supt.

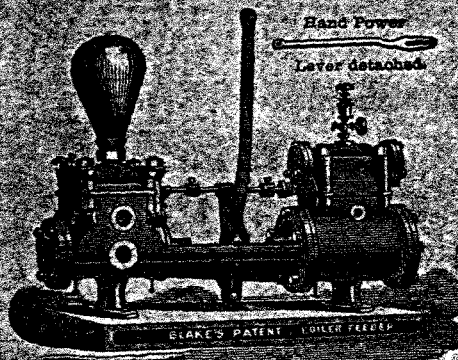
MOUNT PLEASANT SILVER MINING CO., Levant, Me. Incorporated, Nov. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. P. Hubbard, Bangor; Treasurer and Secretary, C. P. Wiggins, Bangor. Directors—J. S. Ricker, N. P. Doe, V. Darling, Frank P. Wood, Wm. P. Hubbard.
Supt.

MINERAL SPRING SILVER MINING CO Palmira, Me. Incorporated,
Capital, \$1000; 1-5 Shares, par value, \$10; Treasury Fund, 10,000 Shares.
President, L. M. Gray; Vice-President, E. W. Conkhitte; Treasurer, M. Traiton.
Supt

OXFORD SILVER MINING COMPANY, Milton, Me. Incorporated, Nov. 1878.
Capital, \$200,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, J. B. Tibbetts, Lisbon, Me; Secretary, Eben Rand, Lewiston.
Supt.

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HEAD SILVER MINING COMPANY.
Bangor, Me. Incorporated, Nov. 1879.
Capital, \$500,000. Shares, \$5 each. Treasury Fund, 10,000 Shares.
President, Eben Blunt, Bangor. Treasurer and Secretary, R. W. Kimball, Bangor. Directors—A. Blase, Eben Blunt, T. N. Egery, Ezra L. Sterns, and W. Ayer, D. J. Kane, A. R. Hopkins.
Supt.

PETTIT MENAN SILVER MINING COMPANY.
Pettit Menan Point, Me. Incorporated, Aug. 9.
Capital, \$100,000. Shares, \$10 each. Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor. Treasurer, L. S. Wyman, Ellsworth. Secretary, J. B. Edman, Ellsworth. Directors—E. H. Greeley, A. Ricker, James W. Davis.
A. S. JARVIS, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital, \$100,000. Shares, \$5 each. Treasury Fund, 10,000 Shares.
President, Weston F. Milliken, Bangor. James L. Rickett, Secretary, Chas. D. Clark, Directors W. F. Milliken, Chas. McCarthy, John A. Strout, E. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.
Supt.

QUEEN CITY SILVER MINING COMPANY.
Bangor, Me. Incorporated, Dec. 1879.
Capital, \$500,000. Shares, \$5 each. Treasury Fund, 40,000 Shares.
President, Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyander Palmer, J. W. Thompson, George F. Dillingham.
F. QUINN, Supt.

RIVERSIDE MINING COMPANY, CAMDEN
Me. Incorporated,
Capital, \$500,000. Shares, \$5 each. Treasury Fund, 10,000 Shares.
President, Wm. B. Ames, Bangor. Treasurer, J. Henry F. Ames, Bangor. Secretary, Geo. H. M. Bartlett. Directors—Wm. B. Ames, J. Henry F. Ames, J. P. Ames, M. Upton, John C. Jones, Frederic R. Page.
FREDERIC R. PAGE, Supt.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000. Shares, \$10 each. Treasury Fund, 10,000 Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullian, James F. Davis, Guy Mullian, A. A. Bartlett.
P. MULLEN, Supt.

STOVER HILL COPPER MINING COMPANY.
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000. Shares, \$10 each. Treasury Fund, 5000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Briggs, Bangor; F. M. Laughron, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARLETT, Supt.
Shaft down 35 feet.

SULLIVAN SILVER MINING COMPANY.
Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000. Shares, \$10 each. Treasury Fund, 10,000 Shares.
President, Geo. B. Brown, Bangor. Treasurer, F. R. Nourse, Bangor. Secretary, W. O. Arnold, Bangor. Directors, Geo. B. Brown, Joseph G. Russell, Wm. D. Lewis, Lyman B. Greenleaf, Geo. B. Richards.
B. P. TILDEN, Supt.

TWIN LEAD COPPER MINING COMPANY.
Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000. Shares, \$5 each. Treasury Fund, 10,000 Shares.
President, David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Wilson, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Sawyer.
CHARLES DUFF, Supt.

WAKEBAG SILVER MINING COMPANY.
Sullivan, Me. Incorporated, May, 1879.
Capital, \$500,000. Shares, \$10 each. Treasury Fund, 10,000 Shares.
President, Geo. Clapp, Boston, Mass. Treasurer, Geo. E. Harrington, Salem, Mass. Secretary, W. O. Arnold, Bangor. Directors, E. S. Grant, G. O. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, I. Foster, George C. Weston.
C. W. KEMPTON, Supt.

Maine Mining Journal.

DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

Vol. I. No. 2.

BANGOR, MAINE, JANUARY 9, 1880.

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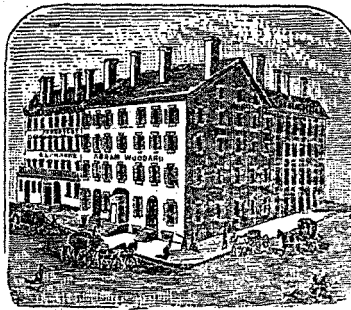
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Fourth—I am a good worker and willing at all times.
Fifth—I require no rest, as I never tire.
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Seventh—I have not a single vice or bad habit.
Eighth—I never ask for a holiday.
Ninth—I always give satisfaction, no matter how fast I am compelled to work.
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Twelfth—I have no particular religion, but am willing to conform to the belief of my employer.
Thirteenth—I can easily do the work of the largest family.
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Fifteenth—Having been employed by families of all nationalities, I can understand one language as well as another.
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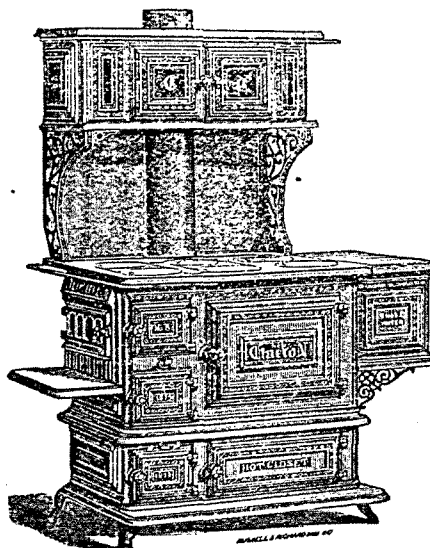
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 9, 1880.

GO SLOW.

Mining in our State is yet in its infancy, and to insure its proper growth and arrival at maturity in full health and vigor, many dangers are to be guarded against. The child is born, but it will require most careful nursing and constant watching for a long time, to secure it from the evil effects of the long train of infantile diseases which must inevitably attack it.

The rapid strides it has recently made, have been a matter of surprise to every one. But a few months ago, the existence of mineral wealth within our borders was hardly dreamed of, and the man who had the temerity to express the belief that Maine would some day become a mining State, was declared a foolish enthusiast.

How marked the change to-day! Scattered throughout the State are hundreds of mining properties which are being worked to a greater or less extent. Upwards of fifty mining companies have been incorporated, with a total capital of nearly twenty-five million dollars, and several thousand men are finding employment. The mines are beginning to attract the attention of all classes, and capitalists in Boston, New York and distant portions of our broad land, are considering the subject and aiding with their money the work of development.

Our inhabitants have been somewhat slow to appreciate the importance of the mineral wealth stored away beneath our rocky hills; but it is not to be wondered at, that people whose eyes have been turned, since the excitement of 1849, to the gold and silver fields of the far west, find it difficult to believe that beneath the rough exterior of the old Pine Tree State, should lie treasures which promise to bring her into prominence in the eyes of the world.

and cause a tide of wealth and prosperity to flow in from every side; and while they have been behind hand in the past, there is danger that many in their present excitement, may put aside their usual caution and rush headlong into disastrous speculations. Already evidences of this unfortunate State of affairs is noticed.

It is demonstrated beyond peradventure that we have rich paying mines in the State, but it does not follow, and is far from the truth, that all the mines now being worked will be bonanzas. In the richest mining districts only a comparatively small number of mining prospects prove a source of income to the owners. Here, as elsewhere, are men who will gain wealth by the credulity of the buyers of mining stocks. Mines of no merit will be lauded to the skies by interested parties, unscrupulous men will fool unwary purchasers, and the unsuspecting ones will be the victims. There are plenty of good mines, and the investor should exercise his most careful judgment.

The class that are now engaging in the enterprise, are among our best business men. They look over the ground carefully, obtain the opinions of the best experts, and then put in their money. As a rule they do not ask the people to invest until the value of the property has been actually demonstrated.

There will however be a greater or less number of "wild cat" schemes inaugurated by men without honor or capital, which must be frowned down by true mining men and be shown the cold shoulder by investors. The success of a few of these men in their effort to make a huge gambling scheme of a legitimate industry would cause irreparable injury to the prospects which are now looking so well.

Let the work of prospecting go on, and let good properties be worked, but organization should never be attempted until the existence of large quantities of paying ore is reasonably assured. There is no field for investment which promises so well as mining, and if all who enter it be true to themselves and to others and honorable in all their transactions, an industry may be built up which shall in a brief time overshadow all others, and cause Maine to become one of the wealthiest and most prosperous States of the Union.

[From the Economist.]

Mining in Maine.

There are many strong reasons why mining in Maine should be profitable, believing, as we do, that the precious metals are to be found there in paying quantities. In the first place, the difference between the opening, developing, and working of a mine, and the construction of its buildings, in Maine and in Nevada (which latter State is a fair criterion for most of the others) is very considerable. In Nevada miners receive \$4 per

day; carpenters \$5 to \$8; masons the same; blacksmiths \$5 to \$6; the price of board, \$8 to 10; lumber costs \$55 to \$125 a thousand feet; wood costs from \$9 to 14 a cord. In Maine miners receive from \$1.25 to \$1.50 a day; carpenters \$1.50 to \$1.75; masons \$1.75 to \$2.00; blacksmiths \$1.50 to \$2.00; stone-cutters \$1.50 to \$2.00; board is \$3.00 a week, and lumber can be bought for \$7.00 a thousand feet; in addition, the facilities for handling and shipping ore in Maine are now much better than in any other mining State, the whole of which permits the mining of a very low grade of ore at a profit. Twenty-five-dollar silver and three-per-cent copper ore can be worked at a good profit. These being the facts, it is only a question as to the extent and value of the deposits, and we are convinced that this question has already been decided, for fissure veins exist there beyond a doubt, and most of the mines opened show better ore from the surface than spoken of above, and as depth is attained the richness of the ore, as is the experience with most mines, increases.

There are some drawbacks to the rapid advancement of mining in Maine; one of these is the conservative character of most of its people. They refuse to believe, as a rule, that there is "anything in it," and not only object to assist by their money the development of an industry which promises to be of immense value to the State, but by their attitude—an attitude which results from an ignorance which refuses to be educated do what they can to discourage the investment of foreign capital. As an illustration of this we have in our mind one man, a leading citizen of the town of Blue Hill, who although having realized some \$2,000 from debts which he had charged to profit and loss, the result of a realization of some mineral property owned by his debtors, and who acknowledges that his homestead is worth a thousand dollars more now than before the mines were started, refuses to believe that there are any good mines in his State and by word and action discourages investment in them. But foreign capital is going there in spite of such men, and some day these "moss-backs" will wake up and find that they have made a mistake.

Another drawback is that Maine is not in the midst of a mining section, if it were, it would be covered with prospectors who on hand and knees would quickly penetrate the mysteries of its hidden wealth. If a hundred of these adventurers should go into the State of Maine to-day we believe in a month there would be a mining excitement in the East, resulting from their discoveries, equal to anything that has ever been witnessed since the days of '49. Another drawback is the character of some of the men who have gone into mine management there. Without experience, and in some cases without character or capital, they have managed to damn some as fine properties as one would desire to have. These cases to which we refer have been, happily, not many, but the properties they controlled happened to possess a great deal of intrinsic value, and the failures were due either to incompetent management or the financial weakness of the companies.

These things will regulate themselves, however, in the course of time. With a little more age, skill, brains, character, and capital will go into the State, and then we look for the rapid development of an industry, than which none can be more legitimate or profitable, a development which will place the State of Maine in an enviable condition of prosperity.

[From the Chicago Mining Review.]

Mining Stocks.

Wisdom is a condensed extract of experience, but there are thousands who seem to have no wisdom though they have had plenty of experience. The bee and the butterfly both have the same broad field of flowers: the bee gathers honey, the butterfly gathers nothing. It would seem as if the past history of stock transactions in San Francisco would be sufficient to induce wise men, at least, to consider the inevitable result of similar operations in other localities.

There is a tendency, growing out of the eager desire to rush the developments of a claim, to immediately stock it and throw its stock upon the market as soon as it is opened sufficiently to be called a mine. Then when the shares are in the brokers' hands the object of issuing the stock is lost sight of in the bewildering dance and whirl of stocks on the market. There is too great a tendency in many instances to manipulate the stocks instead of developing the mine, and in some places it is very evident that the property is only used as a bellows to raise or depress the price of stock, as the occasion may demand; the reports from the mine are encouraging or discouraging, as it may best suit the interest of those controlling the matter.

When the stock of a company falls into the hands of speculators, who will manipulate it only for their own personal advantage, without a thought for the reputation of the mine or the rights of others, the operation so nearly approaches gambling that those who are not acquainted with this manner of dealing, and innocently supposed that the value of shares, depended upon the value and productiveness of the property upon which it was based, had better close out at the first opportunity. That there are and should be honest and legitimate transactions in mining and other stocks, at constantly changing prices, no one will deny. These prices may vary and be changed by any one of numberless contingencies that are continually arising—all legitimate and proper. But when the property itself is tampered with, to produce certain effects, the transactions then may be questioned by honest men who have not only invested their own capital, but have also induced others by their representations, to invest in the same direction, who may be unable to take part in the scheme of management. Where all parties are of the same class, and the game is understood, the question then becomes one of the survival of the strongest and sharpest, but under other circumstances reputable men of integrity must condemn such practices as inconsistent and unjust.

The possibilities of such vast wealth as mining shows so near at hand are in themselves exciting, and men who deal with such chances must need have cool brains and an integrity that is as firm as the foundations of the everlasting hills. Mining as a great productive industry has suffered in times past from this speculative spirit run wild into gambling and unreasonable excitement. Capital and the best minds turned away from it, and it drifted onto questionable ground. Now, again, our country, from the depths of a terrible financial depression, turns to her immense treasure fields that are being opened on every side. The tide of wealth and prosperity is flowing in upon every industry. From our own banks of gold and silver we can pay the debts that we owe, and there lies before us a future such as no other nation ever beheld, if our financiers and legislators will be wise in season and plan for the growth and prosperity of the whole country in the coming years, instead of working with narrowest views for the benefit of a non-productive class. If our nation should ever be in want of money she need never again kneel at the gates of the money lenders of the old world, but can turn to her own mountains, and they will pour out gold and silver until she is satisfied.

Mining is starting again, and its influence is felt as never before. A new and better class of men stand at its head and front—men of capital, and cool, business, calculating minds. Their hands are upon the helm, and it is to be hoped that they may be able to avoid the rocks and dangers of the past, for we feel that upon the development and management of mining much of our power and influence as a people depends. The proper conduct of this industry will have a marked influence upon the financial legislation of congress. For this and many other reasons that will suggest themselves we consider mining one of the most important questions now to be considered by our people. Its reputation, its success, its influence, growth and development, and the important questions that hinge upon it in a great

measure, depend almost entirely upon a correct, just and honest management of mining stocks. If our new stock boards, now in the hands of reliable business men, will give such a tone of dignity, integrity and business responsibility to all matters under their control, and let calmness, judgment and reason rule in every transaction, and discountenance every token of crazy excitement and consequent demoralization, the grand and permanent success of this enterprise is secured, otherwise no one can foretell the ruin, the disappointment and the loss that may follow the whirlwind of destruction that will grow out of an ungovernable excitement in this direction.

"The go ahead people of Bangor have got up a regular boom on mining and mining stocks. They have established a mining exchange, where stocks are regularly bought and sold after the fashion of the larger cities. Stocks in the different mines are exchanging hands daily, and handsome profits are being realized from lucky investments. We have great confidence in the value of the minerals in this State, and hope to see our mines of gold, silver, copper, lead, etc., utilized for the public good."—[Maine Standard.

GEOLOGICAL REPORT

Of Prof. W. F. Stewart on the Acton Silver Mine.

PORTLAND, ME., Dec. 1, 1879.

The discoveries of innumerable deposits of the precious metals, which have been made all over the far west during the past thirty years, have so thoroughly turned public attention in that direction, that men will not believe it even possible that the royal metals can exist, in paying quantities, on the opposite side of the continent. So generally does this spirit of scepticism pervade the minds of eastern communities, as to the possibility of rich mineral deposits existing along the Atlantic border, that the mineralogist who has the hardihood to assert the fact, has hitherto met with either popular ridicule or popular distrust. To oppose this unreasoning public prejudice by logical methods, would, at this juncture, be a fruitless undertaking.

The only way to reach it is by positive, palpable and overwhelming demonstration of the fact that the great east is possibly as fully charged with the precious metals, gold excepted, as any other portion of the North American continent. Probably the wonderful gold deposits of the Pacific coast may never be rivalled by the Atlantic border, nor elsewhere; but, thanks to the untiring energy and indomitable pluck of a few enterprising citizens, it has been recently demonstrated, beyond a peradventure, that the azoic rocks of New England contain exhaustless stores of silver, copper, lead and other precious and useful metals.

This is specially true in relation to the fertile ore deposits in the State of Maine, and it is safe to predict that the period is not remote in the future when this will be one of the foremost bullion-producing States in the Union.

Before entering upon the historical details of this Report, it may be well to present, briefly, the geological and lithological structure of true mineral bearing veins, together with the latest theories of eminent scientists in relation to the natural processes of vein-mineralization. It is now generally conceded by geologists that the crystalline solids of the globe, when undisturbed by secular flexures or eruptive forces, possess a uniform polar cleavage structure. In other words, the rocks all possess lines of lamination, or lines of fracture, and these lines of lamination or lines of cleavage all have uniform bearings toward some point or points of the Arctic or Antarctic Circles. It has long been observed that the general trend or bearing of mountain chains, of continental shore lines, and of oceanic islands, all obey this remarkable law of polar trendings; and it is equally observable that these continental, mountain and island bearings, are, as a rule, conformable to the general cleavage fracture of the rocks.

This palpable tendency of the rocks to split toward the north

and south, is thus graphically presented by a distinguished British Geologist: "The great polar force shows itself in the arrangement of the mineral structure below. In all the primary rocks in every quarter of the globe, where they have been examined, its action is recognized in giving to the crystalline mass (granites and their laminated elongations) a polar grain and vertical cleavage. * * * *

Had it been possible to see our globe stripped of its sedimentary deposits and its oceanic coverings, we should see it like a gigantic melon, with a uniform grain extending from pole to pole."

—["*Connexion of Geology with Terrestrial Magnetism.*"]—E. HOPKINS, C. E., F. G. S.

Many excellent authorities might be cited in proof of the polar-cleavage hypothesis; but, as the rocks themselves everywhere give unmistakable evidence of its truthfulness, it is useless to multiply quotations here. My motive in referring to the cleavage structure of the globe may be readily explained. A true fissure vein is the most permanent and most reliable of all mineralized deposits. Profound fissures were formed in the earth's crust—(whether by shrinkage of the planet by the process of cooling, or by eruptive forces from below, matters not)—countless ages before those chasms were filled by infiltrating materials from chemical solutions; and if it be admitted that the globe is polarized in its cleavage structure, then we can easily explain why most of our true mineral veins, or ore channels, have a uniform bearing or strike toward some portion of the polar circle. A knowledge of this law of polar cleavage in the rocks is of deep importance to the practical miner, for it not only enables him to determine with approximate accuracy, whether a vein be a true fissure, or otherwise, but it also enables him to detect any local breaks, flexures and faultings which may occur in the lode. A lack of such knowledge often leads to much perplexity in mine-working, and sometimes to the utter loss of excellent property. After the great fissures were formed in the crystalline belt of the globe by the rocks fracturing along their lines of cleavage, or lines of least resistance, the slow work of vein making, or filling up of the deep chasms commenced. In the course of many millions of years the deep wounds of the planet were finally closed and healed up—by the electro-chemical treatment—leaving upon its wrinkled breast many a flinty scar to note the fury of primeval conflicts.

During the past half century, no scientific problem has elicited greater attention than the mineralization of fissure veins. Over this perplexing question, staid philosophers have grown querulous with angry and unseemly wrangling. The disciples of Hutton and of Werner have alternately plied each other with streams of lava and floods of hot water until, at last, the wordy conflict has ended in a mingled cloud of igneous vapor and superheated steam. The advanced knowledge of the present generation in chemistry, electro-magnetism, the conservation of natural forces, and in kindred sciences, has caused a radical abandonment of antiquated scientific dogmas in relation to terrestrial activities, and to-day, the leading geologists of Europe and America maintain that the fissures in the earth's belt have been filled and mineralized by electro-magnetic currents passing through hot alkaline waters. "The application of the agency of fire," says Hopkins, "to form such depositions, is not only a rude and clumsy hypothesis, but totally inconsistent with analogy and contrary to facts: Whereas a magnetic, or galvanic current passing through solutions, if not the actual *Modus operandi* of nature, is at all events capable of giving a rational solution, not merely of the mineral veins, but also of all the operations of nature disclosed by geology."

This hypothesis of magnetic currents being a prime factor in mineral deposition in the great ore channels of the globe, has been fully confirmed by the careful observations of Le Conte, Dana, Von Cotta, and other equally reliable geologists. By this electro-chemical process, the materials of mineral veins have been literally leached from the adjacent strata—some-

thing after the manner of metallic deposition in the art of electro-typing—the invisible atoms being gathered from the porous rocks by the inscrutable force of magnetic attraction. A knowledge of this law of magnetic action in the deposition of minerals in veins, or ore-channels, is of paramount value to mine workers and to the holders of mining shares. Experience has long since proved that all points in a perfectly formed ore lode, are not equally well mineralized; and it frequently happens that long-sections of a true vein are comparatively barren and worthless, while adjacent portions of the same vein, are surprisingly fertile and remunerative. This phenomenon can be readily explained by the magnetic hypothesis. By the force of magnetic attraction the atoms of all soluble substances—(of certain degrees of temperature, or at the crystallizing point)—rapidly gather around, or upon, some attracting object. (This fact can be illustrated at any time, by suspending a bit of copper wire in a heated solution of alum, or borax.) When the deep rock-fissures were filled with hot chemical solutions—each fissure being charged with magnetic currents—the invisible metallic atoms rapidly concentrated at attracting points, and in this simple way not only built up rich bonanzas in the lode, but also rendered barren the adjacent sections of the fissures. Ignorance of this mysterious law of “atomic attraction” has cost the expenditure of vast sums of money, and many years of fruitless toil upon many a barren quartz ledge in the far west, and it will be wise on the part of future mine explorers to profit by the experience of their unlucky predecessors. It may be asked—“How are we to determine at what point of a lode may be expected the greatest fertility?”

First—by observing the texture of the quartz, or gangue rock at the point of exploration. If the rock be barren of iron, or other oxidisable substance, abandon the location at once and tap the vein somewhere else. *Second*—Carefully note the topographical features of the zone at the point where you propose to sink the shaft. Experience has shown that tough, silicious rocks which are wholly barren of oxidisable materials, are proof against erosion, and naturally form elevated ridges. Unless you find positive evidences of strong mineralization upon such elevated ridges, abandon the position instantly. *Third*—If there are evidences of mineralization at the point of exploration, call to your aid a practical mineralogist, and he may be able to inform you as to the character of the deposit, and as to the probable depth to which the shaft shall be driven in order to reach workable ore. *Fourth*—Here again, note the topography of your location. Deep depressions are indicative of surface erosion. They also indicate that the rocks contain oxidisable materials—substances which have rendered the vein-stones porous and easily disintegrated by the elements. These depressions in ore bearing belts, may not be an infallible sign of fertility in the underlying vein, but, experience and sound reason both confirm the fact that they are infinitely surer guides to hidden bonanzas than the barren ridges to which reference has been made above.

Having presented a brief outline of modern opinions in relation to rock cleavage; vein mineralization; and other points which may be of value to the practical miner, we shall now see how the philosophy and facts will square with the observed conditions of the Acton mine.

THE ACTON SILVER MINE.

The property of the Acton Silver Mining Company, is located in the towns of Acton and Lebanon, York County, State of Maine. The mine is distant from the city of Portland, about forty miles—via the Portland and Rochester Railroad. The Acton mining works rest upon the eastern margin of a creek, or rivulet, locally known as Barrow's Brook, and are distant—in a northerly direction—from the Railway station at Lebanon, about three and one half miles. Although the country surrounding the Acton is undulating and hilly, yet the road leading to the mine is nearly level all the way, and is in excellent condition. As just intimated, the elevated lands flanking the east and west borders of Barrow's Brook at once indicate the significant fact that the great quartz vein upon which the Acton is located, occupies an unmis-

takable deep depression. The importance of this depressed condition of the lode, has been fully set forth on a preceding page of this report, and need not be repeated here. It may be well to state, however, that the general strike, or course of the great lode, as well as that of Barrow's Brook, is nearly north and south. In fact, the brook simply follows the course of the quartz vein to the distance of several miles, and at two or three points in its course, cuts directly through, or across, the ledge.

The ore-bearing lode upon which the Acton is located, really belongs to a mineralized belt, or system of parallel ore channels. At the distance of from 80 to 100 feet east of the Acton lode, and maintaining nearly the same northerly and southerly bearing, there is another massive quartz vein which has been but slightly prospected; although, at the out-crop, where it is exposed, it gives proof of being strongly mineralized with elements similar to those found at the Acton. Float quartz along the adjacent ridges, indicates that there may be several other veins in the system which have not yet been detected. In brief, it may be stated that the work of development along the great mineral zone, is still in its infancy.

GEOLOGY OF THE ACTON.

Owing to the entire absence of fossil forms in the rocks of the Acton region, it is safe to assume that the veins rest in the upturned schists of the upper Archæan, or Huronian series. The environing rocks of the system are metamorphic mica schists, basic feldsites, and talcose clay slates; while the neighboring hills and ridges are frequently crowned by masses of hornblende granite.

The schistose and feldsitic beds are distinctly laminated, and the lines of their cleavage maintain a uniform bearing with that of the enclosed quartz ledges—In other words, they possess, in a notable degree, the polar trend, or strike, referred to at the beginning of this report. As before stated, the general bearing of the veins, as well as that of the enclosing strata, is nearly north and south—being an average of about southeast by south, and northwest by north. The average westerly dip, or inclination of the vein and schistose walls, is forty-five degrees from the horizon.

The Acton is certainly one of the best defined fissure veins on the continent. It boldly crops out at intervals of a few rods, and can be readily traced from north to south for the distance of two miles or more; and what is specially noticeable is, that its bearing throughout, is almost in a straight line, and there is no perceptible break, or fault in it at any point. The only observable displacements in it, are some slight curvings which are always conformable to local flexures in the adjoining schists. The vein has been exposed at many places by surface cross-cuts, and the exposures show that it ranges in lateral diameter from eight feet to twenty feet—a probable average of ten feet for the entire length of the lode. By far the most important feature of the lode, however, is the encouraging fact that at every point along the entire line where an exposure has been made, it is strongly mineralized from wall to wall, with argentiferous galena, sulphuret of antimony, copper pyrites, zinc blende, and other elements peculiar to the ore deposits of the local system.

The surface ores of the Acton lode, are notably rebellious, and for a time, will be difficult of reduction; but it is gratifying to know that, as depth is attained in a silver bearing vein, the base elements—such as I have enumerated above—rapidly disappear and give place to rich sulphurets of silver. At the opening of the famous Comstock lode at Virginia City, Nevada, the ores were so base with zinc, lead, arsenic and antimony (the very elements contained at the out-crop of the Acton) that they could not be worked profitably by the ordinary wet process, but had to be roasted. At the depth of about 300 feet from the surface however, these rebellious minerals entirely disappeared from the mines and not a vestige of them has been encountered since—although the great lode has been penetrated at many points to the profound depth of 2700 vertical feet. As the surface ores of the Acton are very similar to the surface deposits of many of the leading mines in Nevada, Idaho and Colorado, it is fair to conclude that the law of ledge mineralization in Maine, does not vary widely from its action in other portions of the continent, and we may therefore confidently predict that, at the

depth of a few hundred feet from the surface, the Acton will yield free-milling sulphuret ore. For reasons not yet clearly defined, true ore fissures gradually widen as depth is attained; the vein-stuff becomes less obdurate, the ore bodies grow larger and richer with the increasing width and invariably become less troublesome in the work of reduction. These facts have been established by practical developments in other portions of the country, and they ought to be of encouraging importance to the miners of New England.

The mining property of the Acton Company embraces 500 linear feet of the great lode, with a wide area of land on either side of the same, for working room. At present the company is driving down two working shafts—each double compartment—and will shortly have upon the premises machinery capable of driving both shafts to a depth of 500 feet. The working shafts are located a little to the west of the vein-outcrop, and are distant from each other about 100 feet. Shaft No. 1 has reached the depth of thirty four feet and will tap the ledge at the depth of five or six feet further. Shaft No. 2 is down thirty feet, and at this juncture (Nov. 29) has encountered the upper side of the lode. The vein at this point is perfectly true to its usual strike and dip, and the hanging wall is well defined. The ore found at the bottom of this shaft is apparently less rebellious in character than at the surface, and the mineralization of the lode is quite uniform through the visible portion of the mass. Between the two working shafts there is a frame ore room, with blacksmith shop annexed, and the company will immediately erect comfortable shaft houses over both shafts, so that work can proceed without interruption during the winter.

The company has selected a very favorable location for the work of development. The site is upon an elevated mesa, or terrace, which rises to the height of twenty feet, or more, above Burrow's Brook, and will therefore afford fine dumpage ground for the waste-rock. It may here be noted that the stream just mentioned is quite a rivulet, and its waters may be readily utilized for driving the machinery of the mine. In fact, everything in and about the Acton, is strikingly suggestive of ultimate success. The lode, as already stated, is large, permanent, and (according to statements of the most trustworthy Assayers in New England) the ores are surprisingly rich in silver. The property is convenient to a busy Railway, and is easy of access from every point of the compass. Excellent water power is right upon the ground, and supplies of every kind can be procured at prices merely nominal, as the following summary will show:

Laborers per diem,	\$1.25.
Wood (delivered) per cord,	2 00
Coal " " ton,	5 00
Building Lumber " M	13 00
Shaft " " M	6 00

The facilities for landing machinery upon the ground; the moderate prices for labor and supplies; together with the ease of extracting the ores from the mine, ought to be encouraging items to the owners and shareholders of the Acton mine. I am confident that such a mining property, with such rare facilities for working it, would be, indeed, a grand prize to many a struggling miner in the far west, who is wearing out his life in an unequal contest with the elements, with the deserts, with the savages, and with merciless monopolies.

In concluding this delineation, I have only to add that, in my judgment, the Acton mine fully squares with every known natural requirement for a rich and prominent mining property, and I shall confidently expect the mine to take position as a heavy bullion producer in the near future.

Respectfully yours,

W. F. STEWART,
Geologist and Mineralogist.

Portland, Me., Dec. 1, 1879.

The Calumet and Hecla Mining Company, of Michigan, have voted to increase the capital stock to \$2,500,000, represented by 100,000 shares, an increase of 20,000 shares to be issued pro rata to stockholders of record Dec. 31, 1879.

Personals.

MR. B. P. TILDEN, Superintendent of the Sullivan mine, has held a Professorship in the Boston Institute of Technology.

MR. I. S. EMERY, of the Maine Mining Exchange has been in Boston the past few days arranging for the opening of the branch office in that city.

A. S. JARVIS, Superintendent of the Petit Menan Mine, and PATRICK MULLAN, Superintendent of the Robert Emmett Mine, were in Bangor on Saturday last and made the MINING JOURNAL a call.

MR. F. WORCESTER, JR., has been in Boston during the past week putting a new mining property on the market. The property is located in Sullivan and supposed to be on the same lode as the Sullivan mine.

T. H. MANSFIELD & Co. have opened an office at 67 Exchange Street in Portland and propose to deal in Maine and New Hampshire mining stocks. Auction sales will be held at their office every Saturday forenoon.

MR. W. H. STEPHENSON of the firm of Stephenson & McKeever, well known brokers in New York City, starts during the present month for the Pacific Slope where he will pass some six weeks. He was recently in Bangor.

L. G. COOMBS, O. W. PITCHER, EDWARD ALDEN AND B. M. NEWCOMB, all of Belfast, are largely interested in the DelMonte Mine, near Silver Cliff, Colorado. A paper issued in the vicinity of the mine says the prospect is very flattering.

H. GREGORY, JR., President of the Douglass Mine, is largely interested in the Gardner Mountain Range in the edge of New Hampshire. Mr Gregory left Bangor on Monday for this mining district. There is one mine there that is named the Gregory.

MR. W. I. VALENTINE, Superintendent of the Gouldsboro and Home mines, is a son of Prof. Valentine, of Boston, a gentleman largely interested in mining matters. SUPT. VALENTINE has had considerable experience in the silver mines of Utah and the gold mines of Georgia.

MR. E. C. NICHOLS, President of the Harrington Silver Mine, has recently purchased an interest in the Oskosh Mine in Lawson, Col., and a stock company is soon to be formed for the development of the same. The Georgetown, Col. Courier states that some assays have run as high as eleven hundred ounces of silver.

ADJUTANT GENERAL LEAVITT is quite largely interested in the mines of our State. He has for many years been a believer in the existence of great mineral wealth in Maine. He has been prominently connected with the Lubec Mine which was incorporated over a quarter of a century ago.

There are five MULLAN brothers connected prominently with the mines of Hancock County. PATRICK is the Superintendent of the Robert Emmett, ROBERT is the foreman of the Milton, BARNEY is the Superintendent of the Grant, and MARCUS and GUY are employed at the mines in that vicinity. They have had extensive experience in the mines of the West.

Book Notices.

MINES OF MAINE.—Their present condition and future prospects, the Rock Formations, with Descriptions of the Principal Mineral Belts, condensed Notes on the Ores, their Assay Values, and Manner of Treatment, Opinions of Experts, Newspaper Reports and Theory of the Formation of Ore Veins, List of Stock Companies, Statistics, etc. By Frank L. Bartlett, Assayer for the State of Maine, Author of "Minerals of New England."

This valuable little work contains first, an introduction, in which the author gives briefly his views with regard to mining in our State, and the effect it is destined to have on us, as a people, together with some of the reasons why it has been so long in gaining prominence as an industry. The next article gives general information concerning the rock formations of Maine, and then follows descriptions of the different Mining belts in the State; the Lubec

the GOULDSBORO AND SULLIVAN, the BLUE HILL COPPER BELT, the SEDGWICK AND DEER ISLE, the GREAT METALLIFEROUS SLATE BELT OF PENOBSCOT AND PISCATAQUIS COUNTIES, the ACTON, and the WAKEFIELD AND PARSONSFIELD BELTS. After these come the GOLD FIELDS OF MAINE, NEWSPAPER REPORTS, REPORTS OF MINING EXPERTS, descriptions of ORE VEINS, and remarks upon MAINE ORES. These are followed by a chapter upon MAINE MINES, then a LIST OF INCORPORATED COMPANIES, and finally CONCLUDING REMARKS, containing some interesting facts, and very sensible advice.

The whole forms a book of about 80 pages and contains a surprising amount of information within a small compass, and should be in the hands of every one, whether connected with Maine mines or not. Price 25 cents, postage paid. For sale at the Maine State Assay Office, Portland, and at the Maine Mining Journal Office, Bangor, Maine.

Dips, Spurs and Angles.

"Monday, I dabbled in future operations;
Tuesday, owned millions by all calculations;
Wednesday, my avenue palace began;
Thursday, I drove out a spanking bay span;
Friday, I gave a magnificent ball;
Saturday, busted with nothing at all."

The deepest mine on the Pacific slope, or in America, is the Belcher, which has attained a vertical depth of 3000 feet.

It was the proprietor of a Bessemer furnace who first rejoiced when he met "a foreman worthy of his steel."—[Burdette.

Professor—Now, I ask you, as a practical miner, what spade do you think is the very best? Third year man (scornfully)—Why, the ace, of course. (Sensation).—Acta Columbiana.

J. C. Flood, the California speculator, having made \$15,000,000 out of Comstock-holders is going to try his luck in Wall street. He is the Flood, that rightly taken, bears (or bulls) on to fortune.

GOLD AND COPPER DISCOVERIES IN NEWFOUNDLAND.—Recent reports from Halifax state that gold has been discovered at Burk's Gut, Newfoundland. Specimens of quartz contain considerable gold. A copper mine has been discovered at Harbor Main, Conception Bay.

Canada has a gold field all to itself. Geologists and mining experts have discovered the precious metal in the Valley of the Chaudiere, just west of the Maine line. The field is said to be twenty five miles wide, and to extend from the headwaters of St. John River, in the county of Montmagny, in a south westerly direction to the Vermont boundary. The gold is washed out. Ex-Judge Dittenhoeffer, of New York, has bought a \$200,000 mining right there.

A DISH OF FUN.—An eminent financier feeling his end approach sends for his spiritual adviser and confesses to him that he has been guilty of many sins of commission and omission.

"Of omission, you mean," says the clergyman.

"No, of omission—emitting watered stocks and bogus California gold mining company shares for the lambs to browse on—that's what I mean."

KILLED BY A SNOW SLIDE.—A telegram reached this city, on Saturday, from Leadville, Col., stating that Norris, aged 22, son of William Bassick, of Waldo, was killed on Friday by a snow slide. Young Bassick was in the mines above Leadville, where he is understood to have owned a claim. No particulars of his death have been learned, but Mr. E. C. Bassick who is familiar with that country says that undoubtedly he was at work in a ravine, and the snow slide came down the mountain side. It is unusual to have snow slides there, at this time of the year, says Mr. B., as they generally take place in the soft weather of the spring. The mild weather was undoubtedly the cause of the accident.—[Belfast Journal.

M. P. Woodcock, of this city, last week received a telegram from San Francisco announcing the death of his brother, Hartwell Woodcock, which took place from pneumonia, at Bellville, Nev.

The deceased was 66 years of age, son of the late Theodore Woodcock, of Searsmont, and has been in the Pacific country for twenty-seven years. At the time of his death he was superintendent of the Bellville mine, and we understand a part owner. The older citizens will remember Mr. Woodcock as a shipbuilder, when he built vessels for Kimball & Miller, on the dock, near where the Maine Central depot now stands. From 1849-52 he built vessels on the Ohio river, at Cincinnati, the only sea-going ones ever built at that place. Mr. Woodcock had no family.—[Belfast Journal.

It is estimated that the total production of precious metals during the year 1879 was as follows: California—Gold, \$17,600,000; silver, \$2,400,000. Nevada—Gold, \$9,000,000; silver, \$13,560,000. Colorado—Gold, \$3,225,000; silver, \$11,700,000. Utah—Gold, \$575,000; silver, \$6,250,000. Montana—Gold, \$2,500,000; silver, \$2,225,000. Arizona—Gold, \$800,000; silver, \$2,550,000. Dakota—Gold, \$2,420,000; silver, \$10,000. Idaho—Gold, \$1,200,000; silver, \$650,000. Oregon—Gold, \$1,150,000; silver, \$20,000. New Mexico—Gold, \$125,000; silver, \$60,000. Michigan—silver, 780. Other domestic sources of gold, \$305,000; silver, \$67,000. Grand total of the United States and Territories—Gold, \$33,000,000; silver, \$40,512,000.

WEEKLY NEWS FROM THE MINES.

BLUE HILL.—The new buildings of the Blue Hill Copper Mining & Smelting Company are about completed. The house over shaft No. 1 is 39 by 89 feet and the house over shaft No. 2 is 30 by 63 feet. The buildings are substantial structures and have 23 feet posts. The house over shaft No. 1 holds the hoisting engines for both shafts. The buildings will be all completed in a few days. New hoisting machinery, diamond drills and air compressor are about being put in. Machinery capable of hoisting 300 feet and raising 300 tons per day is being put in. Mr. B. O. Cutter has the right of selling the diamond drill in Hancock County.

DORGLASS.—The annual meeting of the stockholders of the Douglass Copper Mining Company of Blue Hill was held at the Bangor House in this city on Thursday of last week. The election of officers resulted in the choice of Hanson Gregory, Jr., of Rockland, as President, Stephen Jennings of Bangor as Treasurer, Henry B. Darling of Blue Hill, Secretary, and H. Gregory, Jr., of Rockland, Stephen Jennings of Bangor, Wm. D. Swazey of Bucksport, E. C. Arey of Winterport, A. C. Hamlin of Bangor, Charles Hamlin of Bangor and Geo. A. Alden of Boston, as Directors. The report of the treasurer shows the company to be in excellent financial condition. The amount of cash in the treasury is \$23,673.63, 1880 shares of treasury stock is still unsold and 8000 tons of 3 per cent copper ore is on the dump. The interesting report of Superintendent Gregory we hope to lay before our readers in our next number.

ATLANTIC.—The annual meeting of the Atlantic Copper Mining Company was held at Bangor on Jan. 1st. The election of officers resulted in the choice of Hon. F. M. Loughton of Bangor, President; W. P. Hubbard of Bangor, Treasurer; C. F. Bragg of Bangor, Secretary; and F. M. Loughton, C. F. Bragg, D. H. Smith, John Humphrey, F. W. Hill, C. P. Dixon, and H. C. Martin, Directors. The Treasurer reported about four thousand shares of stock and nearly \$8000 in cash in the treasury, with all the buildings, machinery and labor paid for. The report of Superintendent Le Prohon graphically described the work that has been done at the mine. The shaft has been sunk to a depth of fifty feet, and by grading, timbering and filling, made to compare very favorably with the other mines of the section. The shaft house is 49 feet long and 23 feet wide. It is expected that in going down the next thirty feet the main vein of copper will be struck and that good shipping ore will be immediately taken out.

DARLING.—The annual meeting of the Darling Silver Mining Company was held at the Bangor Mining Exchange on Tuesday of this week. The old board of officers were re-elected. It was voted to issue stock to the members on the 15th of February. The Treasurer reported over \$1200 and 16,000 shares of stock in the treasury. Supt. Le Prohon reports that vein No. 1 has been stripped thirty feet in length. A shaft is now being sunk on the vein one hundred feet from the eastern extremity of the property.

The three farms west of the Darling Mine at Blue Hill are now being put upon the market. The property embraces some 225 acres. Good assays have been obtained from surface ore.

BLUE HILL CENTRAL.—The property known as the Blue Hill Central is being put upon the market by Dr. Preble, of Bangor. The property is situated north of the Sover Hill and east of the Twin Lead.

MILLBROOK.—Work is progressing rapidly at the "Millbrook."

It has a regular vein of over four feet in width, and shows ore which seems to be identical with that of the "Sullivan."

Gouldsboro.—We reported last week that the vein appeared to be widening out, and such seems to have been the case. The "pinch" has been passed, and the workmen have already struck into a mass of very rich ore. We intended to state the depth of shaft as 70 feet instead of 40.

HOME.—It is reported that this company have also been fortunate the past week and struck very rich ore. We hope to present our readers with more information concerning it next week.

CHERRYFIELD.—Is now showing more mineral and some of the richest galena yet found in the district.

EARLY DAWN.—The Early Dawn Mining Company has been formed within the past few days in Ellsworth. S. K. Whiting, of Ellsworth, is the President; A. F. Drinkwater, of Ellsworth, is the Treasurer; L. B. Wyman, of Ellsworth, is Secretary; and S. K. Whiting, A. F. Drinkwater, A. H. Bellatty, R. H. Young and L. B. Wyman are Directors. The capital stock is \$500,000 divided into 100,000 shares of a par value of \$5 00 each. Twenty five thousand shares have been set aside as a treasury fund. The mine is situated in the town of Hancock on land owned by J. G. Crabtree.

STEBBEN.—Mr. L. B. Sawyer, of Steuben, has made an examination of a number of a quartz veins in that vicinity, some of which show up sufficiently well to warrant further operations next season.

Mr. Pillsbury Stevens of the same town has also opened a vein which gives a fair showing of copper. The property has been bonded by three parties, and two shafts are to be sunk in the spring.

SEDGWICK.—It is claimed that well defined veins of copper have been discovered in Sedgwick. The first discovery was made on the farm of the late Col. Carleton. Six farms on the shores of Benjamin River have been bonded. A company has been formed to work the claims. The officers are President, Dr. A. G. Hagerthy; Treasurer, Dudley Carlton, and Secretary, Jas. Byard.

NOROMBEA.—The Norombega Silver Mining Company was formed last week at the Maine Mining Exchange in Bangor. The capital of the company is \$500,000, divided into 1 0,000 shares of a par value of \$5 00 each. The treasury fund consists of 36,000 shares. The officers elected are as follows: President, Josiah S. Ricker, of Bangor; Vice President, J. W. Milliken, of Bangor; Treasurer, W. P. Hubbard, of Bangor; Secretary, E. H. Dakin, of Bangor; Directors, J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Brigg, G. F. Dillingham and Geo. J. Fowler. W. H. Darling has been elected Superintendent. The property of the company is 900 feet of vein on the Fowler farm in Hampden.

CLARK.—This mine is in the town of Franklin, on the shores of Taunton Bay. The company was organized in Ellsworth last week, with a capital stock of 500,000 shares, par value \$1 each. One fifth was reserved for treasury purposes, all of which has been taken up. President, Henry L. Murch; Treasurer, Alexander Fulton; Secretary, J. T. Crippen, all of Ellsworth; Directors—Henry L. Murch, J. T. Crippen, H. B. Phillips, Isaac A. Murch, T. H. Mansfield. It is intended to push the work during the winter, and five men are at present at work on the shaft. Assays of surface ores show about \$40 per ton, in silver, copper and gold.

DIRIGO.—Operations on the Dirigo are to be pushed. For some months work has been suspended but men of energy and capital have taken the matter in charge and propose to rush the work of development. Two engines, one of 12 horse power and one of 7, have been obtained at the mine in the past few days. The shaft is 80 feet in depth.

DEAR ISLE.—A large specimen of the ore taken from this mine has been received at the Bangor Mining Exchange. It is very handsome ore and would assay a high figure.

McFARLAND.—Located at South Hancock. Organized at Ellsworth, Dec. 18th, 1879, under the name of "McFarland Silver Mining Co." Capital stock \$500,000, divided into 100,000 shares, par value \$5.00 each. Twenty thousand shares were set aside as a working capital. Henry Whiting, Ellsworth, President; I. S. Johnson, Bangor, Treasurer; A. W. Cushman, Ellsworth, Secretary; Henry Whiting, I. S. Johnson, S. M. McFarland; F. A. McLaughlin, Directors; F. A. McLaughlin, Superintendent. The work at the mine is being pushed forward as fast as is practicable. An examination of the property has been made by Prof. W. F. Stewart, whose report appeared in the Ellsworth American last week.

SNOW.—Work has been progressing under favorable circumstances at the Snow Mine in Bucksport. Prof. Stewart has examined the property and his report will soon be published. It is the intention to organize a company within a few days.

HAMPDEN.—The shaft is about being timbered. The rock has been so firm that it has not been necessary to do this until now. It is proposed to timber the shaft in a very substantial manner.

LAWRENCE.—The company has not yet been formed but organization will now be perfected in a few days when the work of opening up and developing the property will be pushed.

QUEEN CITY.—The work of sinking the shaft is progressing rapidly. The shaft has reached a depth of twelve feet. A portion of the time both day and night crews are being worked. A derrick is now being arranged to raise the rock from the shaft.

MOUNT PLEASANT.—A recent assay of ore from the Mount Pleasant mine in Levant shows \$9 77 gold per ton. The assay was made by S. Dana Hayes, of Boston.

CORINNA.—A crew of seven men have been employed sinking a shaft at the Corinna mine. Another crew is about to be put on. D. C. Breed, a Colorado miner, has several claims in the town of Corinna. One of them is on the Bigelow farm.

CARMEL.—Work is progressing at the Harrington mine. There are other claims in the town of Carmel which are being worked. One is on the farm of S. H. Bartlett and another on the farm of Stephen Chase.

MINERAL HILL.—Three shafts have been sunk on the property. The new shaft house is now completed.

The Gardner Mountain Copper Mining Company.

The property of this Company, which has recently been organized under the laws of the State of Maine, consists of about two hundred and fifty acres of land, with all the mineral and mineral rights thereon, situated in the town of Littleton, N. H., and generally known as the "Albee Farm," and is a portion of the northeast end of Gardner Mountain, from which the Company derives its name.

On this land several veins of ore have been opened, and a shaft sunk to the depth of about eighty feet. The ore taken therefrom is similar in character to that of the Vershire mine in Vermont, about thirty miles distant, and actual assays of small and large quantities show quite as large a percentage of copper as their's. The Vershire mine, as is well known, has been successfully worked for more than twenty years, and is now yielding a hundred tons of pure metallic copper monthly, or twelve hundred tons yearly, which according to official statistics, is a very considerable proportion of the whole product of the United States. The office of the company is at Winterport, Me. The President, Samuel Atwood, and Captain H. Gregory, Jr., one of the directors, left on the 5th inst. for the mine where they will conclude a contract for immediately putting down shaft No. 1, (which has reached a depth of 50 ft) 100 feet further. It is quite probable that smelting works will be erected in the spring, in the vicinity of this mine, by heavy capitalists of New Hampshire and Vermont, which must greatly enhance the value of this property.

Shaft No. 2 is on the side of the hill, and will be put down so that a cut or drift across the metals at about 400 feet will make the cut about three hundred feet from the surface, when stoping can be done rapidly, and steam works will bring the ore to the surface in large quantities. The treasury has ample funds for present wants, and men of capital are ready to take stock when offered.

Prices at New York Mining Exchange.

(HIGHEST AND LOWEST FOR EACH DAY OF THE WEEK ENDING TUESDAY, JANUARY 6, 1880.)

Name.	Wed.	Thurs.	Fri.	Sat.	Mon.	Tues.
	H. L.	H. L.	H. L.	H. L.	H. L.	H. L.
Amer. Flag,	52 ..	.....	.....
Bechtel,	175 160	.....	185 160	200 180	.....
Belle Isle,	140 135	.....	160 150	175 165	.....
Bodie,	91 91	.....	91 91	91 91	.....
Buckeye,	59 56	.....	56 55	57 55	.....
Bulwer,	91 9	.....	91 9	91 91	.....
Caledonia,
Caledonia, B. H.,	3 3	.....	.....	.....	.....
California,	4 4	.....	405 460	475 465	.....
Con. Pacific,	455 410	.....	.....
Consol. Virginia,	410 405	.....	495 55	500 490	.....
Dahlonega,	21 21	.....	22 ..	22 20	.....
Eureka,	161 16	.....	.....
Findley,	60 60	.....	65 ..	63 ..	.....
Gold Placer,	27 26	27 25	.....
Goodshaw,	46 44	.....	42 ..	40 38	.....
Grand Prize,	120 ..	.....	.....
Grandville,	48 46	.....	47 46	46 45	.....
Great Eastern,	43 41	.....	43 ..	40 39	.....
Green Mountain,	220 210	.....	210 ..	.....	.....
Hukill,	445 410	.....	410 400	410 405	.....
Imperial,	68 44	.....	94 89	90 89	.....
Independence,	1 1	.....	150 125	135 125	.....
La Plata,	500 ..	.....	.....
Lucross,	47 47	.....	50 47	51 50	.....
Leadville,	435 425	.....	425 415	.....	.....
Lucerne,	19 19	.....	20 ..	22 20	.....
Moose,	305 290	.....	290 285	285 280	.....
Navajo,	35 35	.....	40 35	50 ..	.....
New York & Col.,
No. Standard,	190 190	.....	180 ..	.....	.....
Plumas,	250 150	.....	275 270	265 ..	.....
Rappahannock,	42 38	.....	39 38	39 38	.....
Shamrock,	140 135	.....	.....	130 ..	.....
South Hite,	335 315	.....	335 330	325 320	.....
Sierra Nevada,	27 28	.....	.....
Tlogi,	275 ..	.....
Tip Top,	225 195	205 ..	.....
Tuscarora,	21 21	.....	80 24	20 ..	.....

Closing Prices of San Francisco Mining Stocks,

FOR THE WEEK ENDING WEDNESDAY, JANUARY 6TH, 1880.

Name	Wed.	Thur.	Fri.	Sat.	Mon.	Tues.
Alpha.....	9 3/4		10	10 1/2	11 1/2	10 1/2
Alta.....	2 1/2		3	3 1/2	4 1/2	3 1/2
Argenta.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Bechtel.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Belcher.....	3 1/2		1	1	1 1/2	5 1/2
Belvidere.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Belle Isle.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Best and Belcher.....	10 1/2		11 1/2	13 1/2	13 1/2	13 1/2
Black Hawk.....			7 1/2	19-32	19-32	1
Bodie.....	9 1/2		9	9	9	9
Boston Con.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Bulwer.....	3 1/2		4 1/2	5 1/2	5 1/2	4 1/2
Caledonia.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Caledonia B H.....	3		2 1/2	2 1/2	2 1/2	2 1/2
California.....	3 1/2		4 1/2	4	4 1/2	4 1/2
Chollar.....	5 1/2		6 1/2	8	7 1/2	7
Confidence.....						
Con. Pacific.....	4 1/2		4 1/2	4 1/2	4 1/2	4 1/2
Con. Virginia.....	4		4 1/2	5	4 1/2	4 1/2
Dudley.....	16 1/2		16 1/2	16 1/2	16 1/2	21-33
Eureka Con.....	2 1/2		3 1/2	3 1/2	3 1/2	3 1/2
Excelsior.....						
Golden Terra.....	5 1/2		6	7	6 1/2	5 1/2
Gould & Curry.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Grand Prize.....			5-32	5 1/2	5 1/2	11-32
Goodshaw.....	6		7 1/2	8 1/2	8 1/2	8 1/2
Hale & Norcross.....				1 1/2	1 1/2	1 1/2
Hillside.....				21-32	19-32	19-32
Imperial.....			1	1 1/2	1 1/2	1 1/2
Independence.....			2	2 1/2	2 1/2	2 1/2
Julia Con.....	1 1/2		2	2 1/2	2 1/2	2 1/2
Justice.....			3 1/2	3 1/2	3 1/2	3 1/2
Jackson.....			9-16	19-32	27-32	11-16
La. y Washington.....						
Leeds.....						
Leopard.....	5-32				3-32	
Leviathan.....	15-16		5-16	5-16	5-16	5-16
Martin White.....			21-32	21-32	21-32	21-32
Mammoth Mine.....	1 1/2		1 1/2	1 1/2	2 1/2	3
Madhattan.....						1 1/2
Mexican.....	17		20 1/2	22 1/2	20 1/2	19 1/2
McClinton.....	3-32		7-16			7-16
Mono.....	4 1/2		6	6 1/2	6 1/2	5 1/2
Northern B He.....	6 1/2		6 1/2	6 1/2	6 1/2	6 1/2
North Bonanza.....	19-16		9-16			3 1/2
Noonday.....	4 1/2		4 1/2	4 1/2	4 1/2	4 1/2
North B He Isle.....			5-32	3-16		7-32
Ophir.....	19		20 1/2	21 1/2	20	20 1/2
Overman.....	5 1/2		8 1/2	8 1/2	8	8
Potosi.....	3		4 1/2	4 1/2	4 1/2	3 1/2
Raymond & Ely.....	1		1		1	20-32
Real del Monte.....			1 1/2		1 1/2	1 1/2
Savage.....	5 1/2		6 1/2	7 1/2	7 1/2	7 1/2
Scorpion.....						
Seg Belcher.....						
Sierra Nevada.....	17 1/2		19 1/2	25 1/2	21 1/2	20 1/2
Silver Hill.....	11-16		27-32	27-32	27-32	13-16
Silver King.....				7	7 1/2	7 1/2
Syndicate.....	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
So. Bulwer.....	9-32		19-32	19-32	19-32	19-32
So. Noonday.....	1 1/2			1 1/2		1 1/2
Tloga.....	2 1/2			2 1/2	2 1/2	2 1/2
Tip Top.....	2		2	2 1/2	2 1/2	2 1/2
Tuscarora.....	5-32					
Union Con.....	40 1/2		42	49 1/2	44 1/2	42 1/2
Utah.....						
Wales.....	3 1/2		3 1/2	3 1/2	3 1/2	3
Yellow Jacket.....	6		11 1/2	12	11 1/2	10 1/2

Ophir declares a dividend of \$1. Sierra Nevada levies an assessment of \$3, and Gould & Curry of \$1, per share.

Prices at Boston Stock Exchange

(FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 7, 1880.)

NAME.	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.
Blue Hill Copper.....	7 7 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Calumet & Hecla.....	235	240	238	235	237	230
Central.....	40		40			39
Cop Fall.....	5	5 1/2	5 1/2	6	6	6
Duncan Silver.....	5	4 1/2	5 1/2	4 1/2	4 1/2	4 1/2
Franklin.....	28 1/2	28 1/2	28 1/2	31 1/2	31 1/2	31 1/2
International.....	60		70		70	70
National.....	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Orford.....						
Osceola.....	34 1/2	35	35	34	35	35 1/2
Pewabic.....	40	40 1/2	41 1/2	44	44 1/2	42
Quincy.....	27 1/2	27 1/2	28 1/2	28 1/2	28 1/2	28 1/2
Ridge.....	7	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Silver Islet.....	21 1/2		21 1/2	20	21	21
Star.....	1 1/2	2 1/2	2	2 1/2	2 1/2	2
Sullivan.....	13 1/2	14 1/2	14	14	14	15

Closing Prices at Portland, Saturday, January 3d, 1880.

T. H. MANSFIELD & CO., 67 EXCHANGE STREET.

Acton.....	\$.14
Portland Acton.....	.11 1/2
Forest City.....	.11
Ammonoosuc.....	1.00
Atlantic.....	1.50
Edgemoggin.....	1.00

Maine Mining Directory.

INCORPORATED COMPANIES.

Atlantic Copper Mining Company, Blue Hill, Me.
 Blue Hill Copper Mining and Smelting Co., Blue Hill, Me.
 Bangor & Blue Hill Copper Mining Co., Blue Hill, Me.
 Bisbee Copper Mining and Smelting Co., Blue Hill, Me.
 Douglass Copper Mining Co., Blue Hill, Me.
 Stover Hill Copper Mining Co., Blue Hill, Me.
 Twin Lead Copper Mining Co., Blue Hill, Me.
 Darling Silver Mining Co., Blue Hill, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Milton Mining and Milling Co., Sullivan, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 Grant Silver Mining Co., Hancock, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Home Silver Mining Co., Gouldsboro, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Petit Menan Silver Mining Co., Petit Menan, Me.
 Edgemoggin Silver Mining Co., Sedgewick, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Riverside Mining Co., Camden, Me.
 Acton Silver Mining Co., Acton, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 Forest City Silver Mining Co., Acton, Me.
 Dirigo Silver Mining Co., Acton, Me.
 Hampden Silver Mining Co., Hampden, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Maine Silver Mining Co., Dexter, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Mineral Spring Silver Mining Co., Palmyra, Me.
 Orient Silver Mining Co., Newport, Me.
 Lubec Silver Mining Co., Lubec, Me.
 Mineral Hill Mining Co., E. Wakefield, N. H.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Lone Star Silver Mining Co., Woodstock, Me.
 Katahdin Iron Company, Katahdin Iron Works, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 McFarland Silver Mining Co., Hancock, Me.
 Clark Silver Mining Co., Franklin, Me.
 Norumbega Silver Mining Co., Hampden, Me.
 Bay View Silver Mining Co., Blue Hill, Me.
 Fort Knox Silver Mining Co., Prospect, Me.

PRIVATE COMPANIES.

Young Hecla S. M. Co., Blue Hill, Me.
 Gray Silver Mining Co., Blue Hill, Me.
 Welcome Mary Copper Mining Co., Blue Hill, Me.
 Whitten Silver Mining Co., Hancock, Me.
 Clapham Silver Mining Co., Sullivan, Me.
 Tugwassa Silver Mining Co., Sullivan, Me.
 Pine Tree Silver Mining Co., Sullivan, Me.
 Sowle & West Silver Mining Co., Gouldsboro, Me.
 Clergue & Pol Silver Mining Co., Gouldsboro, Me.
 Britton Silver Mining Co., Cherryfield, Me.
 Trescott Silver Mining Co., Lubec, Me.
 St. George Silver Mining Co., Lubec, Me.
 Denbo Point Silver Mining Co., Lubec, Me.
 Snow Silver Mining Co., Bucksport, Me.
 Fowler Silver Mining Co., Hampden, Me.
 Lawrence Silver Mining Co., Hampden, Me.
 Wing's Mills Silver Mining Co., Hampden, Me.
 Eastman Silver Mining Co., Hampden, Me.
 Hillside Silver Mining Co., Hermon, Me.
 Antimony Silver Mining Co., Levant, Me.
 Bassick Silver Mining Co., Lowell, Me.
 Shorey Silver Mining Co., Lowell, Me.
 Eskutassis Gold Mining Co., Lowell, Me.
 Guilford Silver Mining Co., Guilford, Me.
 Porter Silver Mining Co., St. Albans, Me.
 French Silver Mining Co., St. Albans, Me.
 Holland Silver Mining Co., St. Albans, Me.
 Boston Acton Silver Mining Co., Acton, Me.
 Silver Wave Silver Mining Co., Acton, Me.
 Emma Albina Silver Mining Co., No. Penobscot, Me.
 Lady Elgin Silver Mining Co., Blue Hill, Me.

The Maine Mining Exchange in Boston will be opened on Monday of next week. It is situated at 28 Congress Street, corner Exchange Place. Auction sales are to be held daily.

ACTON SILVER MINING CO. PANY, ACTON,
Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. F. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Charles Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
MR. COFFEY, Supt.

AMMONOOSUC COPPER MINING COMPANY,
Bath, N H Incorporated, under laws of State of Maine, Dec, 1879.
Capital Stock, Shares,
President, E Dana, Portland; Treasurer and Secretary, Geo S Winn, Portland; Directors, Edmund Dana, Jr, John S Morris, E L O Adams
E L O ADAMS, Manager

ATLANTIC COPPER MINING CO, BLUE HILL,
Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C F Bragg, Bangor. Directors—F. M. Laughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.
EDWARD LE PROHON, Supt.

ASHLEY SILVER MINING COMPANY, SULLIVAN,
Me. Incorporated, July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Wendell Horne, Sullivan. Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

BANGOR & BLUE HILL COPPER MINING CO.
Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.
H. P. BLOOD, Supt.

BLUE HILL COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manerling Emery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Saml Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CORINNA SILVER MINING COMPANY, CORINNA,
Me. Incorporated, Nov. 1879.
Capital \$50,000; Shares, \$5 each; Treasury Fund, 31,000 Shares.
President, George R. Lancaster, Bangor. Treasurer, L. S. Rickland, Bangor. Secretary, B. B. Thatcher, Bangor. Directors—George R. Lancaster, B. B. Thatcher, A. H. Thaxter, W. H. Strickland, W. P. Hubbard, George F. Dillingham, Wm H. Darling.
WM. H. DARLING, Supt.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec, 1879.
Capital Stock \$500,000; Shares, \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth. Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Muroh, Ellsworth.

DEER ISLE GOLD AND SILVER MINING CO.,
Deer Isle, Me. Incorporated, Aug, 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson, F. L. Bartlett.
CHAS W BRYANT, Supt.

DIRIGO SILVER MINING COMPANY, ACTON
Me. Incorporated, Jan 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, I F Cloutman, Farmington, N H; Treasurer, Elerson O Curtis, Farmington, N H; Secretary, E H Hayes, No Lebanon, Me. Directors, I F Cloutman, J O Nute, John M Berry, Alonzo Nute, Elerson O Curtis, Geo A Jones and Rutus B Foss.
MR GOULD, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm D. Swazey, E. C. Arty, Charles Hamlin, Geo A Alden.
HENRY L GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Frank P. Wood, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr W. K. Knowles, Bangor. Directors—Frank P. Wood, Dr W. K. Knowles, V. Darling, F. H. Clergue, C. F. Bragg, C. H. Huckins, W. P. Hubbard.
EDWARD LE PROHON, Supt.

EARLY DAWN SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 Shares.
President, S K Whiting, Ellsworth; Treasurer, A F Drinkwater, Ellsworth; Secretary, L B Wadman, Ellsworth. Directors—S K Whiting, A F Drinkwater, A H Bellatty, R H Young, L B Wadman.
Supt.

EDGEMOGGIN SILVER MINING COMPANY,
Sed wick, Me. Incorporated, June, 1877; reorganized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, Shares.
President, Capt. Chas. Deering, Cape Elizabeth. Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland. Directors—Capt Chas. Deering, A. P. Currier, S. D. Leavitt, W. H. Sargent, Wm R Page.
Office of Company, 22 Exchange St., Portland, Me.
Supt.

FORE-T CITY SILVER MINING COMPANY,
Acton, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland. Treasurer, John W. York, Portland. Secretary, Henry S. Riddon, Portland. Directors—Hon James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Baker, James E. Sturges, Benjamin Barz, S. Jr.
GARDNER FLOYD, Supt.

GARDNER MOUNTAIN COPPER MINING CO.
Littleton, N H. Incorporated under laws of Maine, Dec, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, Samuel Atwood, Winterport, Me; Treasurer, Henry T. Sanborn, Winterport, Me; Secretary, Walter Haley, Winterport, Me; Directors, Samuel Atwood, Manson Gregory, Jr, E C Arty, Walter Haley, Henry T. Sanborn, John Atwood, G B Putnam.
Supt.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund Shares.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors, Henry W. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullen, and E. P. Reed.
BARNEY MULLAN, Supt.

HAMPDEN SILVER MINING COMPANY
Hampden, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon F. M. Laughton, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.
GEORGE DUNTON, Supt.

HANCOCK SILVER MINING COMPANY,
Hancock, Me. Incorporated, May, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund Shares.
President, J G Webster, Boston; Secretary, F W Doughty, Sullivan.
F W DOUGHTY, Supt

HOME SILVER MINING CO., GOULDSBORO,
Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, R. T. Sprague, Boston. Treasurer, Francis Boyd, Boston. Secretary, F. Worcester, Jr., Sullivan. Directors—R. T. Sprague, Francis Boyd, A. F. Emery, Samuel Oxnard, F. Worcester, Jr.
F. WORCESTER, JR., Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, Dr. Alex Fulton; Treasurer, Samuel J. Morrison; Secretary, Geo W. Fiske; Directors, Dr. Alex Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, H. J. Morrison.
Supt.

HARRINGTON SILVER MINING COMPANY,
Camel, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E C Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggan, Bangor; Secretary, E. M. Hershey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobie, James A. Davis, Hon. H. C. Martin.
Supt.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
Sullivan, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, J D Prescott, Boston, Mass; Treasurer, G E Harrington, Salem, Mass; Secretary, W O Arnold, Bangor;
JOHN SHOENBAR Supt.

MINERAL HILL MINING COMPANY, EAST
Wakefield, N. H. Incorporated under laws of State of Maine, May, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 shares.
President, D. H. Smith, Winterport, Me. Treasurer, A. E. Fernold, Winterport, Me. Secretary, Walter Haley, Winterport. Directors—D. H. Smith, Winterport; E. C. Arty, Winterport; John Pierce, Frankfort; T. B. Chisholm, Boston; Walter Haley, Winterport; U. B. Eager, Boston; Hon F. M. Laughton, Bangor.
PROF. F. L. BARTLETT, Portland, Supt.

MOUNT PLEASANT SILVER MINING CO.,
Levant, Me. Incorporated, Nov, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 50,000 Shares.
President, Wm. P. Hubbard, Bangor; Treasurer and Secretary, C. P. Wiggan, Bangor. Directors, J. S. Ricker, N. P. Doe, V. Darling, Frank P. Wood, Wm. P. Hubbard.
Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I S Johnson, Bangor; Secretary, A W Cushman, Ellsworth; Directors—Henry Whiting, I S Johnson, S N McFarland, A F McLaughlin, A W Cushman.
Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan, 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President, J S Ricker, Bangor; Vice-President, J W Milliken, Bangor; Treasurer, W P Hubbard, Bangor; Secretary, E H Dakin, Bangor; Directors—J S Ricker, J W Milliken, W H Darling, N E Bragg, Geo F Dillingham, Geo J Fowler.
Supt.

OWLS HEAD SILVER MINING COMPANY,
So Thomaston, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Eben Blunt, Bangor. Treasurer and Secretary, R. W. Kimball, Bangor. Directors—A. R. Olose, Eben Blunt, T. N. Egery, Ezra L. Sterns, Fred W. Ayer, D. J. Kane, A. R. Hopkins.
—, Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor. Treasurer, L. B. Wyman, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—E. H. Greeley, A. C. Ricker, James W. Davis.
A. S. JARVIS, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Weston F. Milliken, Bangor. Treasurer, James L. Rackliff, Bangor. Secretary, Chas. D. Clark, Bangor. Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.
—, Supt.

QUEEN CITY SILVER MINING COMPANY,
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-sander Palmer, J. W. Thompson, George F. Dillingham.
—, Supt.

RIVERSIDE MINING COMPANY, CAMDEN,
Me. Incorporated.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Wm. B. Ames; Treasurer, J. Henry Fairies; Secretary, Geo. H. M. Bartlett.
Directors—Wm. B. Ames, J. Henry Fairies, J. P. Bridge, M. Upton, John C. Jones, Frederic R. Page.
FREDERIC R. PAGE, Supt.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLEN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. B. Bragg, Bangor; F. M. Laughron, Bangor; Melvin Peble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARTLETT, Supt.
Shaft down 55 feet.

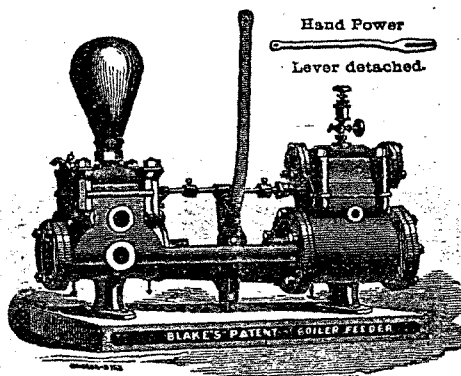
SULLIVAN SILVER MINING COMPANY,
Sullivan, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Geo. B. Brown, Boston; Treasurer, F. R. Nourse, Boston; Secretary, W. O. Arnold, Bangor; Directors, Geo. B. Brown, Joseph G. Russell, Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Richards.
B P TILDEN, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazy.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
Sullivan, Me. Incorporated, May, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Geo. B. Clapp, Boston, Mass; Treasurer, Geo. E. Harrington, Salem, Mass; Secretary, W. O. Arnold, Bangor; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston.
C W KEMPTON, Supt.

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Maine Mining Journal.

DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

Vol. I. No. 3.

BANGOR, MAINE, JANUARY 16, 1880.

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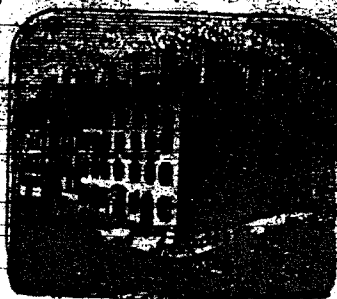
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ISAIAH S. EMERY.

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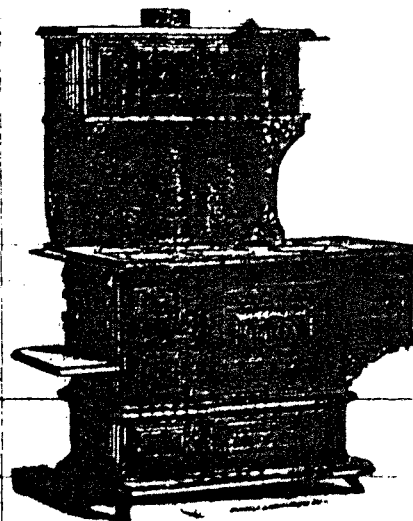
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PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

K. M. BLANDIN, } Editors.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$3.00 per year, strictly in advance.
Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

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Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 16, 1880.

STUMBLING BLOCKS.

We feel impelled to again call attention to the two classes of men mentioned in our first issue, who are taking the surest and most effectual means to bring the mining industry into disrepute and cause it to be looked upon with suspicion and distrust.

They are not numerous, but unfortunately, the people of Maine are in just that state of mind with regard to mining, which enables representatives of either class to find ready and willing listeners. The amount of injury these men may do just at this present time is incalculable, and we appeal to every true man who is laboring for the success of the mining industry and the welfare of the State to assist in showing them up in their true colors.

First of all are the so-called "business men"—men who have some sort of a local reputation for shrewdness and business sagacity—who use every means in their power to throw cold water upon the enterprise, and persist in believing or pretending to believe—for reasons best known to themselves—that mines of any value exist in the State, only on paper and in the minds of crazy enthusiasts. These men all have a greater or less number of followers, who have faith in them and their counsels, according to the amount of lucre they possess, to which they foolishly imagine brains and common sense are a necessary adjunct.

This species of the genus Yahoo cannot, however, be so dangerous as formerly, for the time has now passed when they can deliberately close their eyes to the developments being made on every side, without making themselves appear ridiculous in the eyes of all intelligent men.

The great danger to be apprehended, is from the second species, of which there are numerous varieties. There is first, the man who is honest in his

intentions, but allows himself to run wild over some quartz ledge he has found, discovers a bonanza at once, and immediately proceeds to expend his own funds and all he can borrow, in expensive buildings and machinery, only to discover at last that he is working upon a barren ledge.

Then there is the man who has unbounded confidence in the mineral wealth of this whole region; is ready to invest in any and everything in the shape of a mine; induces his friends to do likewise, until soon, dragging others with him, he is swallowed up in the whirlpool of destruction which he himself has helped to create.

Then comes the cool, calculating, unscrupulous speculator, who neither knows nor cares whether the mines have any real value or not; but sees in the condition of the people, a field in which he can operate to advantage. He proceeds with the help of his minions to decide upon the location of his "mines" (?) has a few blasts made, procures fictitious assays, organizes companies and puts their stocks on the market, regulates the prices to suit himself and pockets the proceeds of the sales. After the bottom has dropped out of his transactions, he transfers his field of operations to some other locality where he is not known, and seeks fresh victims.

Lastly, there is too much tendency among the managers of really valuable properties, to manipulate the stocks instead of giving their whole attention to the mine, and letting the stocks take care of themselves. Mining and dabbling in stocks are two very different branches of business, and no man can long carry on both without causing both himself and the property with which he is connected to become objects of suspicion. The stocks of a really honorable company who have a valuable mine, need no "crying up" or manipulating, and investors are beginning to realize that those which show a steady and healthy rise, and creep up slowly from week to week, offer far better inducements to the purchaser, than those which are constantly fluctuating.

Mining, as an industry, has already become established in Maine; that it has a glorious future before it, is as certain as that the sun will shine. Capital from abroad is pouring into the State, strangers are coming among us daily, attracted by the reports of discoveries of the precious metals, and mining men already here are flooded with correspondence from parties seeking information.

Before another season will have passed, we shall witness the addition of a new and different set of men to our population—wide-awake, energetic and experienced men—who know no such word as failure in any enterprise in which they may embark, and

who will have come to stay. In a comparatively brief time their influence will be felt in legislation and in all affairs of general importance.

They will of course be followed by a crowd of sharpers and bums, who will take advantage of the excitement which must follow, to ply their nefarious practices; and upon the general character now given to mining transactions by the people of Maine, will depend largely the amount of this sort of trash with which we are burdened.

It is easy to foresee that if we have not sufficient energy and vitality among us to grasp the present opportunity, the reins of management of this industry which is destined to become of such vital importance, will pass from our hands forever.

It is for the people of Maine to say whether the golden harvest shall be reaped by themselves or others.

(From the Chicago Mining Review.)

Mines and Stocks

There is an excitement about the prospect of sudden gain that is apt to unthrono the reason and judgment which are the first qualities required in the conduct of any business worthy of the name.

The man who with his spade or saw works ten hours for \$5.00, will probably not experience any very great excitement as he figures upon his prospective gains, but the man who has thousands depending upon the tick of a watch, or upon the change of an eighth of a cent in the market, probably looks upon the possibilities of the result with some degree of interest.

With increased success there is apt to come a spirit of recklessness that will not listen to reason, which, like the elephant, prefers to test the bridge before venturing upon it; and one venture may swallow up the gain of years. We note that recently a number of instances have come under our observation where mines have been purchased for development, and that they were not to be sold or stocked, and in other cases where the stock was to be held by a private company, and no shares were to be sold on the market. This, we believe to be a movement in the right direction, considering the tendency in the opposite direction. This, we conceive to be the legitimate field of mining. Production is a foundation-stone of performance.

As agriculture supplies the world with bread, so mining should supply the people with money. The product of a mine should be ore instead of stocks. With the metal product as the chief end and aim of mining, there is still room for a good business in stocks. The object of a railroad is transportation, and that work it performs through its stock may be changing the fortunes of men at the stock boards. We only protest against the growing and too common practice of locating a claim, and then covering it with stocks to operate upon, instead of developing the mine as fast as money is received from stock sales, and making a firm foundation for business, and giving a real and substantial value to every share of stock sold or put upon the market.

And in this protest, we have in view the real and permanent good of mining. There must be justice and honesty, or there cannot be confidence, without which there can be no prosperity in any enterprise. The history of our former bank-bill system, previous to the national currency, illustrates well the point we wish to make. It is the security to-day behind our national bank notes which gives them unquestioned circulation and value everywhere, while with the other currency every bill was a risk and an uncertainty.

Mining now, in one sense, has a reputation to make and a character to vindicate, and it is necessary to found it upon foundations that will bear the closest scrutiny of honest men. It has suffered in the past from the influence of unscrupulous men, and it is still regarded with suspicion by many. This suspicion and the taint of former days can be overcome if the wise counsels of good men are heeded, and business is conducted upon the principles of justice and equity.

A few mammoth swindles, a series of lesser frauds, a flood of worthless stocks upon the market, and the tide that now is setting in so favorably toward this giant industry, with such glowing prospects for the future, with such an energy of capital and intelligence, may be turned aside and leave no sign of its promise but debris and ruin.

What Others Say.

At this juncture, there is no portion of this continent which can present to the observant geologist such an apparently endless number of mineralogical surprises, as the wrinkled and sterile bosom of eastern Maine.

In a vast region of country where, for more than a century, the brightest pecuniary expectation of the plodding citizen centered in a fishing smack and a lumber raft, the magical work of thousands of busy prospectors is rapidly transforming the flinty land into an almost limitless field of glittering treasures.

This is by no means a fancy sketch of the mineralogical conditions of the "Pine Tree State." Actual developments have been made at so many widely separated mining localities in this State, that there is no longer the slightest room to doubt that Maine is not only rich in copper, lead, antimony, and other useful and valuable metals, but that her rugged breast contains exhaustless chambers of gold and silver.

I am aware that much scepticism exists as to the possible existence of permanent and remunerative deposits of the precious metals in this portion of the country; and I am further aware of the disagreeable fact that the mining expert who has the hardihood to avow the existence of such precious deposits, runs the risk of being considered either a knave or an enthusiast; but my personal observations at the districts of Blue Hill, Sullivan, Acton, and various other less famous localities, enables me to predict with a reasonable degree of certainty, that scepticism and ridicule will give place to enthusiastic belief, in less than a twelve-month. [Extract from Prof. Stewart's Report on the "Grant Mine."

More hope and more encouragement for Maine minerals. Every day we hear something of interest to our miners, good reports, richer assays, higher prices for stock and more demand for it from all parts of the country. The most sceptic

that are being surely convinced of the value of the mineral wealth of Maine.

The most satisfactory part of the late reports seems to be the confident and sanguine feeling among mining men in regard to their mining developments, all seem well pleased and satisfied with their prospering work and evidently are preparing to go to work towards spring with all the force that can be used to advantage, and it seems probable that by next July we shall see a great excitement here in this usual quiet State over the various mines now being worked and the sale of stocks of different companies.

The old and wise men of this very conservative city may prepare for one of the most exciting seasons on record. It can't be prevented nor kept out of the city limits, or even from the streets. We think there will be no special harm come of it unless men get to gambling, as it were, in stocks. Men of experience in such matters know that all legitimate mining operations and stock sales should be encouraged, especially where large profits are expected with a reasonable degree of certainty.—[Portland Sunday Sun.

All accounts agree in crediting the present year with the brightest outlook yet for mining interests. Like some other branches of enterprise, mining has entered on a new departure. It is rapidly emerging from its former condition of uncertainty and assuming a regular business character. The jockeyism that fastened to it in past days has been forced to relinquish its hold. The gambling spirit is giving way to the industrial and business spirit. Actual properties are displacing mere prospects. Owners are more solicitous for regular dividends than for selling their stock at advanced prices. The wild-cat is fast becoming domesticated. A mine means ore in sight and assays imply an average rather than an exceptional value. Pockets and streaks are not going to be sufficient in the future to satisfy capital. There must be something both visible and valuable. The cost of machinery for the ostensible working of a mine will not be taken as evidence that a real mine is in sight. These are among the reasons why mining is to be far more successful this year than ever before, to which must be added the rapid construction of railroads into mining territory, a movement that is to prove more influential in the speedy development of mining properties and the extraction of the precious metals from the earth than almost any other single fact of the times.—[Economist.

Personals.

PROF. R. C. STANLEY, of Lewiston, has been qualified as State Assayer.

MR. B. S. GRANT, of Boston, has been elected President of the Waukeag Silver Mining Company in place of Mr. GEO. B. CLAPP.

CAPT. ALFRED PATTERSON, of Saco, is interesting himself in the mining business and has opened an office in that city for the sale of stock.

PROF. W. F. STEWART has been invited by the leading citizens of Portland to deliver a lecture on mining in Portland City Hall at an early date.

PROF. W. F. STEWART left Bangor on Friday of last week

for Portland. It is understood that he has since visited the Edgemoggin mine at Sedgwick.

MR. HENRY DODD, of the firm of RICHARDSON, HILL & Co., Boston bankers, has been elected a member of the New York Mining Exchange. Mr. Dodd formerly lived in Bangor.

MR. LAWRENCE, the mining editor of the Boston Advertiser, is conducting his department with signal ability and is making that journal very interesting to the miners of our State.

Letters from Liverpool announce the safe arrival of PROF. BARTLETT and wife. They experienced a rough passage but are in excellent health. They are expected home about March 10th.

MR. F. S. KNIGHT, Assistant State Assayer, recently met with an unfortunate accident. He was thrown from a sleigh in Portland last week and dislocated an ankle and has not been able to walk since.

MR. GOULD has taken the superintendency of the Dirigo mine on the Acton lode. MR. GOULD was prominently associated with the Newburyport mines, having been for some time superintendent of the Merrimac.

MR. B. O. CUTTER, of the Blue Hill mine, was made happy while in this city on Sunday last by a telegram from Blue Hill announcing that in the southerly drift of the Blue Hill mine another rich vein of copper had been found.

MESSRS. T. H. MANSFIELD & Co. are meeting with success in the holding of auction sales of mining stocks in Portland. Their office has been named the Portland Mining Exchange. It is situated at 67 Exchange Street.

FRANCIS WORCESTER, Esq., has recovered from his recent illness and is now able to be out. MR. WORCESTER has three sons who are associated with him in the mining business, FRANCIS WORCESTER, JR., THEODORE WORCESTER and EDWARD WORCESTER.

MR. JOHN S. MORRIS, of Portland, is very prominently identified with the mines of the Acton lode. MR. MORRIS has had general supervision of several of the properties on this promising lode and the prominence which they have so quickly attained is largely due to his excellent management.

The MINING JOURNAL has received pleasant calls from D. H. SMITH, of Winterport, President of the Mineral Hill, DR. COLLINS of Bucksport, President of the East Blue Hill, C. C. BURRILL, of Ellsworth, Treasurer of the Gouldsboro, A. W. CUSHMAN, of Ellsworth, Secretary of the McFarland, and Dr. FELLOWS of Prospect, Superintendent of the Fort Knox Mine.

GEOLOGICAL REPORT

Of Prof. W. F. Stewart on the Property of the Blue Hill Copper Mining and Smelting Company.

BLUE HILL, ME., Dec 10, 1879.

For a period of forty years or more it has been known that the ores of copper and lead exist at Blue Hill, eastern Maine, and from time to time during that period eminent British and American geologists have—in a sort of incidental way—alluded to the fact; but these in-cidental allusions were of such an evasive and uncertain character that they only served as a bar to any attempts at practical

cal mine development until quite recently. During the past three or four years a few enterprising gentlemen have heroically devoted their time, labor and capital to the work of thorough exploration, and it is gratifying to know that their endeavors have been crowned by a golden success. More than this, they have not only demonstrated the bountiful mineral fertility of Blue Hill district, but they have also awakened a profound interest as to the mineral resources of the State, and already sufficient developments have been made at many widely separated localities to warrant the belief that Maine is destined to become—in the immediate future—one of the leading producers of silver and copper bullion.

BLUE HILL MINE.

The property of the Blue Hill Copper Mining and Smelting Company is located in the county of Hancock, State of Maine. Its position and natural advantages for practical mine-working are exceptionally excellent.

In addition to the local water supply, the adjacent hills are covered with a heavy growth of live timber, which will ultimately be brought into active requisition for timbering the various shafts, slopes and drifts of the mine.

The property lies about two miles southeasterly from the spruce pine village of Blue Hill, which rests at the head of a beautiful land-locked bay. The harbor of Blue Hill has long been noted for its safety and ease of approach by all kinds of water craft. The road leading from the harbor to the mine is well graded and nearly level, so that the machinery and supplies can at all times be conveyed to the works expeditiously and inexpensively. The surrounding country is a well developed and finely productive agricultural region, and provisions of every variety can be obtained cheaply and abundantly. In very brief, there is possibly no spot on this planet where mining can be more expeditiously carried forward than at Blue Hill.

The entire geological, lithological and mineralogical conformation of the Blue Hill system indicates profoundity, permanency and fertility in the accompanying quartz veins or ore-channels.

The general mineralization of the great belt is analogous to the famous ore-channels at Eureka, Nevada, which the courts and the experts recently declared to be one vast mineral lode—900 feet in width. With this judicial precedent before us, we are warranted in assuming that the broad Blue Hill zone is one vast mineralogical lode, containing three or more well-defined mineral veins or ore-channels. The strong mineralization of the rocks adjacent to the main run-lodies is one of the most encouraging features of the Blue Hill mines.

It is a long established fact that in every silver mining region on the globe the deposits of the most metal always grow freer, stronger and more reliable at increasing depths, while the other metals—even gold—rapidly fade out, leaving the silver entirely free, or very slightly alloyed.

Aside from scientific speculations, however, the actual experience of men has proved the important fact that base metals disappear from silver-bearing lodes as depth is attained from the surface, and as the Blue Hill mine unquestionably contains an increasing percentage of silver at every fathom of increasing depth, it is fair to conclude that it will conform to the general law of vein mineralization, and ultimately become a rich deposit of free-milling silver ore.

The Blue Hill Copper Mining and Smelting Company owns 2000 feet—linear measure—of the great vein or ore-channel upon which the work of development is now being prosecuted. In fact, the company holds a title in fee to 66 acres of the land upon which the mine is located, so that the company has full right, not alone to the lode which is now being developed, but also to all other veins or ore channels which lie within the limits of the survey. This fact is of deep importance, for the reason that the company has adopted the sensible plan of sinking vertical shafts, and from these can readily reach, by short cross drifts, two other important parallel veins which lie in near proximity to the central lode, or point of present working.

As the title of the company indicates, the original object was to

work the mine solely for copper products, and for that purpose the company caused to be erected one of the largest concentrating works on the continent. The building, which is an irregular structure, covers 8,000 square feet of ground, and is three stories high. In this capacious building there is every conceivable adjunct to a first-class concentrating establishment. There is an endless array of screens, crushers, refiners, elevators and concentrators; but as every machine is ingeniously contrived so that it works automatically and with perfect precision, the entire concern requires but a limited amount of personal supervision. The driving power of this complicated mass of machinery is an eighty horse power engine. There are two large boilers—each having a seventy-five horse power capacity, and they will, therefore, abundantly supply the demands for outside work. Both the engine and the boilers are firmly bedded in solid granite. In fact, everything in and about the premises is placed with the design of permanency and durability.

Under the watchful superintendency of Mr. B. O. Cutter—a gentleman who has had the advantage of long practical experience in the various mining works of the far west—the numerous improvements upon the property are being vigorously pushed forward, and when completed—as they soon will be—the following additional appliances will be ready for use: Over shaft No. 1, a substantial hoisting works will be placed. The building will be 80x80 feet. In fact, this structure is already up, and will be completed during the present week (December 10, 1879.) As will be observed it is a capacious building, and will furnish ample room for the machinery and for large quantities of ore. This house will contain a hoisting engine and two spools or reels, which will be used as the hoisting apparatus for shafts No. 1 and 2. The spools will have a power to hoist from a depth of 800 feet at an average velocity of 200 feet per minute. Shaft No. 2 is situated 125 feet east of the first shaft. This shaft will also be enclosed in a substantial hoist-house, which will be 30x60 feet and one story elevation. The driving force and other adjuncts for mine working are as follows: A duplex reciprocating pump, driven by compressed air: two Burleigh steam drills, worked by compressed air taken from a Burleigh compressor. It is intended to utilize the extra steam from the great boilers at the concentrating mill for the purpose of driving much of the machinery in and about the mines. The hoisting engine will be driven by power derived from the great boilers, the steam to be conveyed 125 feet by pipe. An elevated tramway 800 feet in length extends from the mine to the concentration mill, and connects the output of shafts Nos. 1 and 2 with the Blake crushers. The tramway saves a vast deal of manual labor, and greatly facilitates the work of ore transportation to the crusher. In the concentration mill there are six complete Paddock concentrators, all in perfect order. In fact, there are numberless contrivances in and around the works which would require a small volume for their description, and which need not be enumerated here.

MINERALIZATION OF THE BLUE HILL LODE.

As before stated, the trend or bearing of the Blue Hill vein or ore channel is nearly east and west, and in shaft Nos. 1 and 2 it maintains a regular dip toward the south of about 65 degrees from the horizon. Shaft No. 1 has been driven vertically to the depth of 95 feet, and, as it was started at the outcrop of the ledge, the bottom of the shaft is, of course, some distance to the north of the ore channel. The first south drift from shaft No. 1 tapped the ledge or ore vein at a point 85 feet from the surface. At that level the ledge is fifteen feet from wall to wall and is thoroughly mineralized with copper throughout all the mass, much of the ore being high grade. It may be well to note here that this vein or ledge was very narrow at the surface, being less than two feet in diameter, so that fifteen feet of lateral width at the 85-foot station is indicative of an enormous expansion at a greater depth from the present working. Shaft No. 2 is really, at this juncture, simply an inclined excavation which has followed the dip of the lode to the depth of 40 feet. The intention of the company is, however, to drive it down vertically, so that it may be worked by the same gearing applied to shaft No. 1. As at the opening of the first shaft which is situated 125 feet farther west, the ledge at shaft No. 2

was narrow at the surface, but at the depth of 40 feet it has expanded to a breadth of from twelve to thirteen feet, and, like its neighbor, shaft No. 1, the entire vein, from wall to wall, is strongly mineralized with sulphuret of copper and other elements peculiar to the lode.

On the 29th of last month (November), Superintendent Cutter directed a letter to the president of the company, which so graphically described the present working status of the mine that I shall take the liberty of making the subjoined extract from the published copy:—

"I found in No. 2 shaft that the 5 foot vein of high grade ore, which showed when you visited us, had increased so as to fill the entire shaft, and still running under the hanging wall, so we now have at least twelve feet of ore that will average 6 per cent., and some of it as high as 25 per cent., and the vein is still widening. I am now working 6 gangs of men in it, and producing ore carrying very little iron at every blast, and there is no waste ore. Drift in vein from No. 1 shaft, we are drifting both east and west of the vein, which continues about 15 feet in width, 11 or 12 feet of it being high grade and 3 feet a good grade of milling ore. We are on a vein about 20 feet running east, and about 8 feet west, and working 6 drills. I shall set crews overhead to stoping this week, which will add 3 more drills, so as to get as large a space opened as possible for working. When I get the steam-drills at work I shall be able to take out at least 25 tons daily of high grade ore. I intend as soon as I get my hoisting works up, to commence sinking again, and shall cut the vein again in about three months, when, if it improves as it has to its present depth, I will produce at least 75 tons daily from both levels and shaft No. 2 of a very much higher grade of ore. I am pushing the hoisting works as fast as possible. Shall commence raising my buildings this week, and hope to have them all inclosed and all of the foundation in by the 30th of December, and if the machinery is here shall make short work in putting that in position. Shall be able to load the vessel as soon as she arrives, and thereafter hope to make monthly shipments."

To exhibit at a glance the value of the ore at the present working of the mine, as well as to show the increasing percentage of metal as depth is attained from the surface, the following table of results, by the state assayer, may be deemed satisfactory.—

SAMPLES OF ORE TAKEN FROM MINE OF THE BLUE HILL COPPER MINING AND SMELTING COMPANY.

No. 1 Shaft,	Copper.....	1.74
Mountain cut,	".....	1.28
No. 1 Shaft,	".....	2.25
Mountain cut,	".....	2.54
No. 1 Shaft,	".....	2.71
" 2	".....	8.88
" 1	".....	4.74
" 1	".....	6.63
" 1	".....	7.05
" 1	".....	8.23
" 1	".....	10.25
" 1	".....	10.54
" 1	".....	11.07
" 1	".....	15.17
" 2	".....	17.87
" 2	".....	17.61
" 2	".....	18.50
" 2	".....	20.63
" 2	".....	15.63
Vein matter drift,	".....	26.90
" 2 Shaft,	".....	26.90

The above are results of assays from samples selected by myself from the mine, from May to December, 1879.

In addition to the above I have assayed samples for silver and gold as follows:—

No. 1 Shaft, silver.....	4 8-10	ozs.
" 1	5 4-10	"
" 1	11 4-10	"
" 1	2.50-100	"
" 1	15-100	"
" 1	8-10	"
" 1 (Silver.....)	310 2 10	"
" 1 (Gold.....)	4 2-10	"

(Signed) E. R. HILLS, State Assayer,
December 9, 1879.

The following results of a series of assays made by the same gentleman will convey an idea of the wonderful efficiency of the work of concentration now being used by the company:—

SAMPLE OF TAILINGS TAKEN FROM MILL OF THE BLUE HILL COPPER MINING AND SMELTING COMPANY.

Tailings.....	0.23 per cent.
".....	0.24
".....	0.23
".....	0.20
".....	0.30
".....	0.35
".....	0.38
".....	0.40
".....	0.41
".....	0.45

Yours truly,
(Signed) E. R. HILLS, State Assayer,
December 9, 1879.

The figures show that the work of separation by this process is very nearly perfect, and that there is but slight room for improvement.

In addition to the various appliances already enumerated in this report, the company has ordered two Burleigh drills of the new pattern, one for overhead stoping and the other for shaft work. These will be driven by compressed air in the manner before referred to, and will doubtless prove efficient auxiliaries to the excellent apparatus now being used at the mine. In brief, the owners of the Blue Hill Mine are fully convinced of its great intrinsic value, and they are alive to the importance of developing it in a thoroughly business and practical manner.

I have the honor to be very respectfully yours,
(Signed) W. P. STUART, Geologist.
Blue Hill, December 9, 1879.

Dips, Spurs and Angles.

"There are thousands of people in Maine
Who are constantly praying for rain,
They say that a flood
Will wash off the blood,
And carry off most of the slain."

—[Cincinnati Enquirer.]

"The 'lamps' to Mr. Jay Gould—"What's funds to you is debt to us."—[New York World.]

Leadville is called a young town because its inhabitants are mostly miners.—[Cheyenne Leader.]

The miner puts in a great deal of work in his play, sir; and the miner finds his work in his placer too.—[Boston Transcript.]

When coal-headed business men in Maine will play seven-up for a thousand shares of mining stock, it is time to cease idle talk and seriously inquire where those men will die when they go to.—[Lewiston Gazette.]

Mr. Venner, the Canadian, says we are to have three awful spells of cold weather this and next month. Will Mr. Venner please step over on this side just for one minute—yes, only one. There's a man with a sand club waiting and watching for thee.—[Lockport Union.]

GOLD IN CANADA.—A special dispatch to the Boston Herald, dated January 9th, says: "Great expectations are indulged in in regard to the gold mine of Beauce district, in this province. In his speech at the banquet to his honor last night, Premier Chapteau said that by June next between five and six thousand miners would be seen in that gold field. Several New York capitalists are interested in the mines, including ex Judge Dittenhofer, Cyrus Field and others."

WEEKLY NEWS FROM THE MINES.

Acton.—Shaft No. 1 is down 45 feet. A drift has been made across the vein and it is found to be 15 feet in width. The vein is thoroughly mineralized and the ore is the best yet found in the mine. Several tons of good milling ore are being removed daily from this shaft.

PORTLAND ACTON.—The shaft has reached the depth of 26 feet. The work of sinking is rapidly progressing. It is expected that the vein will soon be reached.

BOSTON ACTON.—Work on the Boston Acton has commenced. The organization of the company will soon be perfected. President Gregory of the Douglass is one of the large stockholders of the company.

FOREST CITY.—The vein has been struck at a depth of 20 feet. The shaft is about 25 feet west of the cross cut. The vein matter at the depth now reached in the shaft is exceedingly rich. Mr. Gardner Floyd, the Superintendent, has forwarded to the office of the company in Portland numerous specimens of the ore. Both day and night crews are being worked. One crew has recently been employed in timbering the shaft. The Forest City is taking prominent rank among the Acton mines.

ACTON CONCENTRATION WORKS.—Concentration works for the mines of the Acton lode will soon be erected. The foundation for the works will be at once commenced.

MINERAL HILL.—This property is situated in East Wakefield, New Hampshire, and distant but 14 miles from the great Acton belt. Work has progressed somewhat slowly, as the company have been determined to assure themselves of the permanency of the mineral deposits before going into extensive operations and purchasing costly machinery. A shaft has been sunk to a depth of 50 feet and some fine looking ore has been removed. It is similar in character to that of the Acton. The office of the company is at Winterport, Me.

AMMONOOSUC.—The property of this company, which has recently been organized under the laws of the State of Maine, consists of sixty acres of mineral rights on the Gardner Mountain range in the town of Bath, County of Grafton, State of New Hampshire. Prof. C. H. Hitchcock states that the Gardner Mountain range is geologically and mineralogically like other copper fields which have been tested and proved valuable. It contains three bands of cupriferous rocks and shows copper on the surface of all, the western belt having been worked on the south and the Haviland on the north, showing a steady increase in concentration from the surface down to the depth on the Lang of 100 feet and 240 feet on the Haviland. There are three such veins on the Ammonoosuc from which copper assaying from 4 to 15 per cent has been taken.

OWL'S HEAD.—Workmen are employed in sinking a shaft. A depth of about sixteen feet has been reached. The shaft is 7 feet by 12 feet in size. A specimen from the mine was recently pronounced to be very good gold quartz by Prof. Stewart.

EDMONDOGGIN.—Active operations are to be resumed at this mine. The financial condition of the company is now excellent. Mr. J. B. Melvin, of Lowell, Mass., has assumed the duties of superintendent. The Boston office of the company is at 7 Exchange Place.

BROOKLIN.—Deposits of copper have been found on the farm of Alvan Carter in the town of Brooklin. The vein has been partly opened. Mineral has also been found on other property in the vicinity.

ATLANTIC.—The timbering of the shaft is completed and the work of sinking the shaft is now in progress. The steam drills are at work.

BANGOR AND BLUE HILL.—The shaft is now down about 70 feet.

DOUGLASS.—Messrs. Shoner & Allen, of Philadelphia, are now manufacturing a Bradford concentrating mill of a daily capacity of 100 tons for the Douglass. A very large engine and machinery for the mill and a hoisting engine have been ordered. The mill is expected to be in running order in June next. By that time it is expected that the company will have at least twelve thousand tons of copper ore on the dump and the ore body so exposed that from 150 to 200 tons of ore can be raised daily.

BROOKS HILL.—The sinking of the shaft continues. It is proposed to sink to a depth of 100 feet and then drift. Very handsome ore is being taken out. The last assays made showed \$4 of silver and \$4 of gold per ton in addition to the copper. A special meeting of the stockholders was held at the Bangor Mining Exchange on Saturday last. It was voted to change the stock from 50,000 shares of a par value of \$10 to 100,000 shares of a par value of \$5. It was also voted to increase the treasury stock to 25,000 shares.

TWIN LEAD.—The shaft being sunk is 14 feet by 7 feet in size. There will be three compartments when timbered, namely, hoisting, pump and ladder way. The two former will be 4½ feet by 6 feet each, and the latter 5 feet by 6 feet. The foot wall is straightening as depth is attained. The directors have voted to issue a limited amount of treasury stock at \$2 per share. A depth of 24 feet from the bottom of the open cut or 88 feet from the surface has been reached. The foot wall is now perpendicular. A quartz vein mineralized with native silver has been found in the foot wall.

EAST BLUE HILL.—The East Blue Hill Gold & Silver Mining

Company was recently organized in Bucksport. The following officers were elected: President, W. C. Collins, M. D.; Treasurer, Leander Hancock; Secretary, O. P. Cunningham; Directors, W. C. Collins, James Emery, Geo. W. Collins, Geo. N. Emerson, M. D., O. P. Cunningham. The property of the company is located at East Blue Hill, and embraces a peninsular of land 19 acres in extent, extending into the bay. The vein extends from shore to shore, about 1100 feet, and is 5 inches wide at the surface, but at the depth now reached, 4 feet, has increased to 28 inches. The surface showing of the ore is good and contains gold, silver and lead. A blacksmith shop has been erected and lumber is being hauled for the shaft house. It is proposed to push the work during the winter. Geo. W. Collins, Superintendent.

BAY VIEW.—The Bay View Silver & Copper Mining Company of Blue Hill was organized in Bangor recently. The property is located on the eastern shore of Blue Hill Bay. The capital is \$500,000, divided into 100,000 shares of a par value of \$5. It is understood that the name given to the company was suggested by Prof. Stewart. The officers are President, Wm. T. Pearson of Bangor; Vice President, John S. Jenness, of Bangor; Treasurer, Edward B. Nealley, of Bangor; Secretary, John R. Mason, of Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, and Ezra L. Sterns. A shaft is being sunk on the property of the company.

BLUE HILL NECK.—Mr. Samuel Annear has bonded several properties at Blue Hill Neck on which veins of copper have been found.

Mr. W. H. Darling, the discoverer of the Blue Hill mineral deposits, has purchased the Douglass farm at Blue Hill. This property is situated in the center of the great mineral zone and lies directly between the Atlantic and Blue Hill mines.

EMMA ALBINA.—The Emma Albina mine is situated in North Penobscot. Mr. Annear of Blue Hill has been the exclusive owner of the property, but Boston capitalists recently purchased a half interest. The organization of the company will be perfected in a few days and work will be commenced.

MCFARLAND.—The McFarland mine is located at Hancock Neck on the shore of Frenchman's Bay. The property extends to the water's edge and affords the company excellent facilities for shipping. It comprises five hundred feet of well-defined vein, on which a shaft has been sunk fourteen feet, and a shaft house, blacksmith shop and storehouse have been built. F. A. McLaughlin, Superintendent.

MILTON.—The new engine for shaft No. 1 has arrived and the steam hoisting works over both shafts will soon be in operation. The engine is of forty horse power and was built by Kendall & Roberts, Cambridgeport, Mass. It is reported that shaft No. 1 which has reached a depth of one hundred and ten feet, is now in very rich ore.

MILLBROOK.—Located at Sullivan on the Sullivan lode. Mr. Thomas Dalby, the Treasurer, gives the following brief history of the mine:

The property of this company consists of seventeen acres of land, giving a length of over six hundred feet, running north-west and southeast across the property. The cropping of the vein was first discovered in the Millbrook (a stream which crosses the property) and was considered the most promising spot for mining in the entire district, after the discovery of the Sullivan mine, and was the second piece of property bonded or leased by Mr. F. Worcester, the first owner of the "Sullivan" and pioneer in the silver development of eastern Maine. By him the work was commenced on the Millbrook, and a shaft 8½ feet sunk to the depth of seventy feet, showing a vein carrying mineral and increasing in thickness from eighteen inches on the surface to four feet at present depth. The ore has been very variable, running at times high in the thousands in gold, again very lightly in gold or silver. At sixty feet a heavy body of ore was struck, assays of which, made by Dr. Thayer and others, gave from sixty to seventy ounces of silver and good showing of gold, and this continued to present depth, when work was suspended preparatory to formation of present company. The ore in appearance is identical with that of the Sullivan mine, but carries much more gold, and it certainly can be said with truth that no mine in the district promises better results than this for the near future. The new company is under good management, have placed heavy machinery in their new buildings, and work will be pushed with the energy characteristic of the Sullivan district.

GOULDSBORO.—Four weeks ago the vein in the Gouldsboro shaft had "pinched up" to a few inches in width, and scarcely anything, which could be called ore was being removed. It is, one, however, at all familiar with the property and with the formation of ore channels, lost confidence in the value of the mine for a moment. Supt. Valentine explained to the writer, then examining the locality, that in the gold mines of the South, with which he had been previously connected, it was a frequent occurrence for the walls of a vein to draw together and

almost close up for a short distance, and separate again, sometimes forming capacious chambers, and stated that the richest ore was always found where the vein began to widen out. Such has proved to be the case with the Gouldsboro. The bottom of the shaft is in very rich ore, and the vein has increased in width to six feet.

GLOBE.—The Globe Silver Mining Company was organized at Gouldsboro, Dec. 30, with a capital stock of \$500,000 in \$10 shares. The following is a list of officers: President, O. H. Perry, Boston; Treasurer, Geo. A. Gibson, Boston; Secretary, E. G. Johnston, Sullivan; Directors, O. H. Perry, G. A. Gibson, E. G. Johnston, Geo. W. Pettengill. The property of the Globe is situated at Bluff Head, Gouldsboro, and comprises nearly a mile of the great Gouldsboro lode. The present depth of the shaft is eighteen feet, in fine galena ore, and increasing in richness. Assays from surface give a result of from \$30 to \$40 silver to the ton. A new shaft house 20x36 has just been completed, and hoisting works will be erected in the spring or early summer. Mr. E. G. Johnston of the Pine Tree Mine, Sullivan, has superintended operations.

VICTOR.—Considerable work has been done on the property. The ore taken from the vein is quite identical with that taken from the mines of the Sullivan lode. It is understood that an expert will soon examine and report on this property.

CHERRYFIELD.—The shaft has now reached a depth of eighty-seven feet, and the various stringers have consolidated and formed a vein of solid mineral varying in width from fifteen to twenty-four inches. The ore when first struck consisted principally of zinc blende mixed with small quantities of argentiferous galena. The ore now being taken out contains a much larger percentage of galena, and the indications are that before the one hundred foot level is reached, the zinc will entirely disappear and be replaced by a very high grade of galena.

Six samples of ore were taken from different parts of the vein and assayed. The average of these was seventy-two ounces of silver per ton, the two highest assays yielding one hundred and one hundred and sixteen ounces, the lowest forty ounces per ton. Work is being pushed as rapidly as possible, and when the one hundred foot level is reached (which will be about Feb. 1,) steam machinery will be put in.

LEWIS.—The mine was incorporated in 1851. Work has been continued at intervals during the last quarter of a century. Three shafts have been sunk. One has reached a depth of one hundred and ninety feet, another one hundred and sixty feet and another a less depth. A great number of levels have been run. The ore taken out contained a good per cent of silver, but zinc was in the ore in quantities to be very troublesome. The company is composed largely of New York men. The company experienced financial difficulties and work was accordingly suspended some time since. Adjutant General Leavitt who is one of the large owners in the mine recently went to New York and has perfected arrangements so that in a short time work will be resumed at the mine. Mr. Leavitt is confident that the zinc will not be the source of much trouble in the future.

NEW BRUNSWICK.—But a few miles across the Maine border, in the edge of New Brunswick are several mining properties. Three companies have been organized at Le Toto, St. George, N. B. They are the Dick & Williamson Mining Co., Mascaron Mining Co., and Revenue Mining Co. Thad. W. Dick is superintendent of the two former. The officers of the Dick & Williamson Mining Co. are: President, S. B. Pool, of Calais, Me.; Treasurer, John Wetherbee, of Boston, Mass.; Secretary, Stephen H. Dick, Superintendent, Thad. W. Dick, Directors: S. B. Pool, John Wetherbee, Thad. W. Dick, Isaac Williamson, and S. H. Dick. The mines are located 25 miles from Calais, and 12 miles from East port. The capital is \$100,000, divided into 100,000 shares of a par value of \$1.00 each. Six tenths of the capital stock is to be used as a fund for developing the mine.

FORT KNOX.—The Fort Knox Silver Mining Co. has been organized. The capital is \$500,000, divided into 100,000 shares of \$5.00 each. The officers are: President, Wm. H. Fogler, of Belfast; Treasurer, T. B. Grant, of Prospect; Secretary, John F. Libbey, of Prospect; Superintendent, A. R. Fellows, of Prospect; Directors, Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant and James H. Douglass. The mine is located in the town of Prospect on the west shore of the Penobscot River. The shaft has reached a depth of sixty feet. Several assays have been made by Jas. Arnold of Providence, R. I.; one assay shows: gold, \$65.75, copper, \$15, and silver \$10 to the ton, and another assay shows: gold, \$27, silver, \$7.50, and lead 1400 pounds to the ton. The offices are at Prospect and at 23 Water Street, Boston.

BARNES STRIKE.—On the boundary line between Bucksport and Dedham, John Barnes has found mineral deposits on his farm. He has opened a well defined vein and the ore increases in value with each foot of depth.

HAMPDEN.—The work of timbering the shaft is still going

on and will occupy several days yet. A new engine will soon be secured. A steam pump has recently been put in operation.

NOROMBEGA.—A crew of men have commenced work. Operations began on the property of the company on Thursday of last week. The property is directly north of the Hampden Mine. A shaft will be sunk at once.

LAWRENCE.—The Lawrence Silver Mining Company was organized at the Maine Mining Exchange, in Bangor, on Monday of this week. The capital is \$500,000, divided into 500,000 shares of a par value of \$1.00 each. The treasury fund is 100,000 shares. The officers are: President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, of Bangor; Treasurer, W. J. Webb, of Bangor; Secretary, W. Lee Johnson, of Bangor; and Directors, W. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Manly G. Trask, and Geo. W. Sweetser. The property of the company is located in the town of Hampden, south of the mine of the Hampden Silver Mining Company.

HARRINGTON.—Night and day crews are being employed. A tramway is to be put in and a hoisting derrick is to be erected. Wm. H. Darling will assume the duties of Superintendent.

MINERAL SPRING.—Situated at Palmyra, Maine. This company was incorporated with a capital stock of \$50,000, in \$10 shares, with a treasury fund of 1000 shares. President, L. M. Gray, of Newport, Vice-President, E. W. Conkhitte, of Newport, and Capt. M. Trafton, of Bangor, Treasurer.

The officers of the company and holders of stock have great confidence in the value and permanency of their property. Work is progressing favorably, and preparations are being made for more extensive operations in the spring. An open cut has been made for some distance into the hill, and a shaft is now being put down in the cut. A recent assay of ore taken from the shaft showed: \$101 in silver, and \$4.00 in gold, per ton. The Conkhitte Bros., experienced miners have charge of the work.

Prices at New York Mining Exchange.

(HIGHEST AND LOWEST FOR EACH DAY OF THE WEEK ENDING TUESDAY, JANUARY 15, 1890.)

NAME.	WED.	THURS.	FRI.	SAT.	SUN.	TUES.
AME.	H. L.	H. L.	H. L.	H. L.	H. L.	H. L.
Amer. Flag	183 180	185 180	185 180	185 180	185 180	185 180
Bechtel	165 160	165 160	165 160	165 160	165 160	165 160
Belle Isle	9 9 1/2	9 9 1/2	9 9 1/2	9 9 1/2	9 9 1/2	9 9 1/2
Bodie	56 56	55 55	54 54	55 55	55 55	55 55
Buckeye	9 9 1/2	9 9 1/2	9 9 1/2	9 9 1/2	9 9 1/2	9 9 1/2
Bulwer	440 440	440 440	440 440	440 440	440 440	440 440
Calcedonia	440 440	440 440	440 440	440 440	440 440	440 440
Calcedonia, B. H.	440 440	440 440	440 440	440 440	440 440	440 440
California	440 440	440 440	440 440	440 440	440 440	440 440
Con. Pacific	440 440	440 440	440 440	440 440	440 440	440 440
Con. Virginia	440 440	440 440	440 440	440 440	440 440	440 440
Dalhousie	17 17	17 17	17 17	17 17	17 17	17 17
Eureka	62 62	62 62	62 62	62 62	62 62	62 62
Fidelity	38 35	35 35	35 35	35 35	35 35	35 35
Gold Placer	41 39	37 37	37 37	44 44	41 41	41 41
Goodshaw	48 45	45 45	45 45	44 44	44 44	44 44
Grand Pigeon	44 40	40 40	40 40	44 40	44 40	44 40
Granville	305 304	320 306	315 315	310 310	315 315	320 320
Great Eastern	400 415	439 435	435 430	430 435	435 435	440 440
Green Mountain	83 80	78 78	77 77	75 75	77 75	77 75
Hukill	148 140	140 140	140 140	110 110	100 100	135 135
Imperial	6 5 1/2	6 5 1/2	6 5 1/2	6 5 1/2	6 5 1/2	6 5 1/2
Independence	415 415	415 415	430 430	430 415	410 410	430 435
La Plata	31 30	30 30	30 30	19 19	19 19	19 19
Lacrosse	340 340	345 345	345 345	340 340	340 340	340 340
Leadville	50 50	40 40	40 40	40 40	40 40	40 40
Liverpool	185 170	185 170	185 170	190 190	195 190	195 190
Plumas	39 37	40 38	38 38	38 38	38 38	38 38
Rappahannock	135 130	135 130	135 130	135 135	135 135	135 135
Shamrock	345 340	340 340	340 340	340 340	340 340	340 340
South Uta	340 340	340 340	340 340	340 340	340 340	340 340
Sierra Nevada	340 340	340 340	340 340	340 340	340 340	340 340
Tioga	340 340	340 340	340 340	340 340	340 340	340 340
Tip Top	340 340	340 340	340 340	340 340	340 340	340 340
Tumacacori	340 340	340 340	340 340	340 340	340 340	340 340

Portland Mining Exchange.

The following are the closing prices at Portland Mining Exchange, Jan. 15, by T. H. Mansfield & Co., 57 Exchange street:

Bluehill	\$7 1/2 @ 7 3/4
Portland Acton	1 1/4
Forest City Acton	1 1/4
Atlanta	75
Acton	0 00 @ 4 00
Douglas	0 00 @ 1 00
Darling Silver	0 00 @ 5 00
Waukeg	2 50 @ 3 50
Milton	0 00 @ 1 00
Mineral Hill	0 00 @ 1 00
Edgemokke	0 00 @ 1 00
Annabessie Copper Mining Co. of Gartner Mountain, N. H.	0 00 @ 1 00
Deer Isle	1 00
Clark Silver	10
Young Hecla	1 00

Closing Prices of San Francisco Mining Stocks,

FOR THE WEEK ENDING TUESDAY, JAN. 12, 1880.

NAME.	Wed.	Thur.	Fri.	Sat.	Mon.	Tue.
Alpha	10 1/2	10	10	10 1/2	11 1/2	10 1/2
Alta	4	4 1/2	4	4 1/2	4 1/2	4 1/2
Argenta	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bechtel	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Belcher	5 1/2	6 1/2	6	7 1/2	8 1/2	9 1/2
Belvidere	22 3/2	22 3/2	1	1	1	1
Belle Isle	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bent and Belcher	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Black Hawk	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bodie	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Boston Con.	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bullion	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Bulwer	9 1/2	9 1/2	9 1/2	10	10	10
Caledonia A.	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Caledonia B. H.	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
California	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Chollar	7 1/2	7 1/2	7 1/2	7 1/2	8	8 1/2
Confidence	4	4	4	4	4	4
Con. Pacific	4	4	4	4	4	4
Con. Virginia	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Dudley	21 3/2	21 3/2	21 3/2	21 3/2	21 3/2	21 3/2
Edwards Con.	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Eschschur	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Golden Terra	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Gordon & Curry	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Grand Prize	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Goodshaw	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Hale & Norcross	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Hillside	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Imperial	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
Independence	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Julia Con.	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Justice	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Jackson	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Lady Washington	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
Leeds	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2
Leopard	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Leviathan	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Martin White	21 3/2	21 3/2	21 3/2	21 3/2	21 3/2	21 3/2
Mammoth Mine	8	8	8	8	8	8
Manhattan	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Mexican	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
McClinton	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Mono	8	8	8	8	8	8
Northern B.	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
North Bonanza	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Noonday	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
North Belle Isle	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
Ophir	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
Overman	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Potosi	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Raymond & Ely	22 3/2	22 3/2	22 3/2	22 3/2	22 3/2	22 3/2
Real del Monte	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Savage	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Scorpion	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Seg Belcher	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Sierra Nevada	20 1/2	20 1/2	20 1/2	20 1/2	20 1/2	20 1/2
Silver Hill	4	4	4	4	4	4
Silver King	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Syndicate	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
So. Bulwer	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
So. Noonday	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Troja	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Tip Top	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Tuscarora	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Union Con.	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Utah	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Wales	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Yellow Jacket	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2

Prices at Boston Stock Exchange,

(FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 13, 1880.)

	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
Bid. Ask. Bid. Ask. Bid. Ask. Bid. Ask. Bid. Ask. Bid. Ask.						
Blue Hill Copper	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Calumet & Hecla	235	235	235	235	235	235
Central	39 1/2	39 1/2	39 1/2	39 1/2	39 1/2	39 1/2
Copper Fall	6	6	6	6	6	6
Dunsmuir	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Franklin	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2
International	62	62	62	62	62	62
McNary	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
National	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Oxford	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Oreocla	34	34	34	34	34	34
Panama	42	42	42	42	42	42
Quincy	39	39	39	39	39	39
Ridge	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Silver Islet	20	20	20	20	20	20
Star	1	1	1	1	1	1
Sullivan	15	15	15	15	15	15

Maine Mining Exchange, 28 Congress Street, Boston.

SALES MONDAY, JANUARY 13, 1880.

55 Washburn @ 1 50
 105 Milton @ 8 00

Maine Mining Directory.

INCORPORATED COMPANIES.

Atlantic Copper Mining Company, Blue Hill, Me.
 Blue Hill Copper Mining and Smelting Co., Blue Hill, Me.
 Bangor & Blue Hill Copper Mining Co., Blue Hill, Me.
 Bisbee Copper Mining and Smelting Co., Blue Hill, Me.
 Douglass Copper Mining Co., Blue Hill, Me.
 Stover Hill Copper Mining Co., Blue Hill, Me.
 Twin Lead Copper Mining Co., Blue Hill, Me.
 Darling Silver Mining Co., Blue Hill, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Milton Mining and Milling Co., Sullivan, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 Grant Silver Mining Co., Hancock, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Home Silver Mining Co., Gouldsboro, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Petit Menan Silver Mining Co., Petit Menan, Me.
 Edgemoggin Silver Mining Co., Sedgwick, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Riverside Mining Co., Camden, Me.
 Acton Silver Mining Co., Acton, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 Forest City Silver Mining Co., Acton, Me.
 Dirigo Silver Mining Co., Acton, Me.
 Hampden Silver Mining Co., Hampden, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Maine Silver Mining Co., Dexter, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Mineral Spring Silver Mining Co., Palmyra, Me.
 Orient Silver Mining Co., Newport, Me.
 Lubec Silver Mining Co., Lubec, Me.
 Mineral Hill Mining Co., E. Wakefield, N. H.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Lone Star Silver Mining Co., Woodstock, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 McFarland Silver Mining Co., Hancock, Me.
 Clark Silver Mining Co., Franklin, Me.
 Noromoga Silver Mining Co., Hampden, Me.
 Bay View Silver Mining Co., Blue Hill, Me.
 Fort Knox Silver Mining Co., Prospect, Me.
 Lawrence Silver Mining Co., Hampden, Me.
 Globe Silver Mining Co., Gouldsboro, Me.
 Little Sue Silver Mining Co., Lamolue, Me.
 Egypt Silver Mining Co., Franklin, Me.

PRIVATE COMPANIES.

Young Hecla Silver Mining Company, Blue Hill, Me.
 Gray Silver Mining Co., Blue Hill, Me.
 Welcome Mary Copper Mining Co., Blue Hill, Me.
 Whitten Silver Mining Co., Hancock, Me.
 Clapham Silver Mining Co., Sullivan, Me.
 Tugwassa Silver Mining Co., Sullivan, Me.
 Pine Tree Silver Mining Co., Sullivan, Me.
 Sowle & West Silver Mining Co., Gouldsboro, Me.
 Clergue & Pol Silver Mining Co., Gouldsboro, Me.
 Britton Silver Mining Co., Cherryfield, Me.
 Trescott Silver Mining Co., Lubec, Me.
 St. George Silver Mining Co., Lubec, Me.
 Denbo Point Silver Mining Co., Lubec, Me.
 Snow Silver Mining Co., Bucksport, Me.
 Fowler Silver Mining Co., Hampden, Me.
 Wing's Mills Silver Mining Co., Hampden, Me.
 Eastman's Silver Mining Co., Hampden, Me.
 Hillside Silver Mining Co., Hermon, Me.
 Antimony Silver Mining Co., Levant, Me.
 Bassick Silver Mining Co., Lowell, Me.
 Shorey Silver Mining Co., Lowell, Me.
 Eskutasis Gold Mining Co., Lowell, Me.
 Guilford Silver Mining Co., Guilford, Me.
 Porter Silver Mining Co., St. Albans, Me.
 French Silver Mining Co., St. Albans, Me.
 Holland Silver Mining Co., St. Albans, Me.
 Boston Acton Silver Mining Co., Acton, Me.
 Silver Wave Silver Mining Co., Acton, Me.
 Emma Albion Silver Co., No. Penobscot, Me.
 Lady Elgin Silver Mining Co., Blue Hill, Me.
 Blue Hill Central Copper Mining Co., Blue Hill, Me.
 Favorite Copper Mining Co., Blue Hill, Me.
 White Star Silver and Copper Mining Co., Blue Hill, Me.

ACTON SILVER MINING COMPANY, ACTON, Me. Incorporated, Oct. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleave, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
MR. COFFEY, Supt.

ATLANTIC COPPER MINING CO. BLUE HILL, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Hagg, Bangor; Directors—F. M. Laughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y. C. F. Hagg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.
E M LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY, Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000.
President, Edward Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. Adams, all of Portland.
Office of Company, 22 Exchange St. Portland Me.
E L O ADAMS, Manager.

BANGOR & BLUE HILL COPPER MINING CO. Blue Hill, Me. Incorporated: 1878.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Geo. Brooks, Orrington; Treasurer and Secretary, E. C. Smith, Bangor; Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smith, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.
H. P. BLOOD, Supt.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, N. C. Blanchard, Boston; Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill; Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank H. Dele, Manning Ebery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, June, 1878.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden; Treasurer and Secretary, Hon. S. L. Milliken, Belfast; Manager, A. T. Brown, Blue Hill; Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindie.
A. T. BROWN, Manager.

CHERRYFIELD SILVER MINING COMPANY, Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Saml Campbell, Cherryfield; Treasurer, Judge J. A. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CHARK SILVER MINING CO., FRANKLIN, Me. Incorporated, Dec. 1879.
Capital Stock \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

DEER ISLE GOLD MINING COMPANY, Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis, Parsons, Willard C. G. Carney, William S. Sampson, F. L. Bartlett.
CHAS W BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm D. Swazey, E. C. Arcey, Charles Hamlin, Geo A Alden.
HENRY L GREGORY, Supt.

DARLING SILVER MINING COMPANY, Blue Hill, Me. Incorporated, Nov. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Frank P. Wood, Bangor; Treasurer, Stephen G. Downs, Bangor; Secretary, Dr W. E. Knowles, Bangor; Directors—Frank P. Wood, Dr W. E. Knowles, V. Darling, F. H. Clergue, C. F. Bragg, C. H. Hucks, W. P. Hubbard.
E M LE PROHON, Supt.

EAST BLUE HILL GOLD & SILVER MINING CO. East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D. Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emory, Dr Geo H. Emerson, Geo W Collins, Dr W C Collins, O P Cunningham.
GEO W COLLINS, Supt.

FOREST CITY SILVER MINING COMPANY, Acton, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, U. N. S. Reddon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas M Rice, Clark H Baker, James E Sturgis, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

GARDNER MOUNTAIN COPPER MINING CO., Littleton, N. H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Samuel Atwood, Winterport, Me; Treasurer, Henry T. Sanborn, Winterport, Me; Secretary, Walter Haley, Winterport, Me; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arcey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.
Supt.

GOULDSBORO SILVER MINING COMPANY, Gouldsboro, Me. Incorporated, June, 1878.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, Charles C. Burhill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors—A. P. Wiswell, C. C. Burhill, Eugene Hale.
W. I. VALENTINE, Supt.

HAMPDEN SILVER MINING COMPANY, Hampden, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon. F. M. Laughton, Bangor; Treasurer, C. E. Hild, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Laughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

HARRINGTON SILVER MINING COMPANY, Carmel, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggin, Bangor; Secretary, E. M. Hersey, Bangor; Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
WM H DARLING, Supt.

LAWRENCE SILVER MINING COMPANY, Hampden, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm H Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm H Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo W Sweetser.
Supt.

MILLBROOK SILVER MINING COMPANY, Sullivan, Maine Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Sidney E. Horne, Sullivan; Directors—L. E. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MOUNT PLEASANT SILVER MINING CO., Levant, Me. Incorporated, Nov. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 50,000 Shares.
President, Wm P. Hubbard, Bangor; Treasurer and Secretary, C. P. Wiggin, Bangor; Directors—J. S. Ricker, N. P. Doe, V. Darling, Frank P. Wood, Wm. P. Hubbard.
Supt.

MINEIRA HILL MINING COMPANY, EAST W. Wescott, N. H. Incorporated under laws of State of Maine, May, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Smith, Winterport, Me; Treasurer, A. E. Fernald, Winterport, Me; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arcey, Winterport; John Pierce, Frankfort; T. B. Chisholm, Boston; Walter Haley, Winterport; H. B. Eager, Boston; Hon F. M. Laughton, Bangor.
PROF. F. L. BARTLETT, Portland, Supt.

MCFARLAND SILVER MINING COMPANY, Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F A McLAUGHLIN, Supt.

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President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arcey, Winterport; John Pierce, Frankfort; W. C. Frye, Belfast; John A. Wood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NORONGA SILVER MINING COMPANY, Bangor, Me. Incorporated, Jan. 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 35,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Miliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Miliken, Wm H Darling, N. E. Bragg, Geo F Dillingham, Geo J Fowler.
WM H DARLING, Supt.

PORTLAND-ACTON SILVER MINING CO., Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Weston F. Miliken; Treasurer, James L. Racklin, Secretary, Chas D. Clark; Directors, W. F. Miliken, Chas. McCarthy Jr., John A. Strout, F. J. Hollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.
Supt.

QUEEN CITY SILVER MINING COMPANY, Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr H. F. Hanson, Bangor; Vice-President, J. S. Ricker, Bangor; Treasurer, Chas. Hild, Bangor; Secretary, W. J. Patten, Bangor; Directors—Dr H. F. Hanson, J. F. Parkhurst, Lyndner Palmer, J. W. Thompson, George F. Dillingham.
Supt.

ROBERT EMMETT SILVER MINING CO., Egypt Bay, Hancock, Me. Incorporated, Jan., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, H. Whiting, Ellsworth; Treasurer, A. A. Bartlett, Ellsworth; Secretary, George A. Parcher, Ellsworth; Directors—Henry Whiting, Marcus Mullab, James F. Davis, Guy Mullan A. A. Bartlett.
P. MULLAN, Supt.

STOVER HILL COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor; Treasurer and Secretary, Wm. P. Hubbard, Bangor; Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARTLETT, Supt.
Shaft down 65 feet.

SULLIVAN SILVER MINING COMPANY, on the Sullivan Mine, Sullivan, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund 10,000 Shares.
President, Geo B Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo B Brown, Joseph Q. Russell, Wm D Lewis, Lyman B. Greenleaf, Geo G Richards.
B P TILDEN, Supt.

TWIN LEAD COPPER MINING COMPANY, Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, David Hucks, Bangor; Vice-President, Frank P. Wood, Bangor; Treasurer, John S. Jenness, Bangor; Secretary, John R. Mason, Bangor; Directors—David Hucks, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

Maine Mining Journal.

DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

Vol. I. No. 4.

BANGOR, MAINE, JANUARY 23, 1880.

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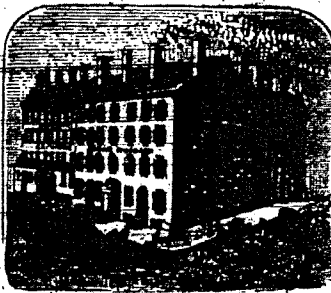
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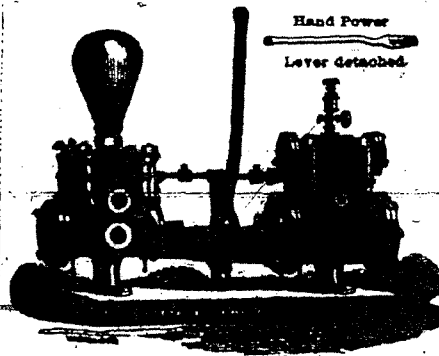
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Twelfth—I have no particular religion, but am willing to conform to the belief of my employer.

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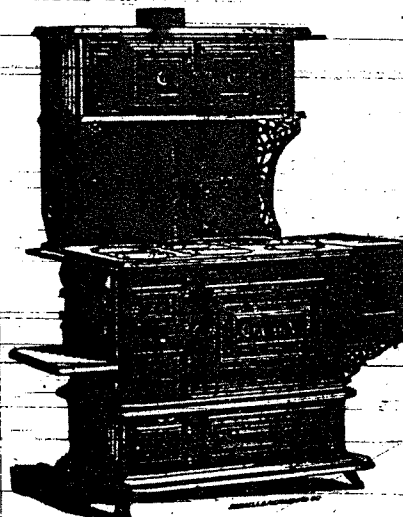
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 23, 1880.

— THE OUTLOOK.

The fresh start which business has taken and the new impetus given to nearly all branches of industry throughout the country are already beginning to be felt in this State. There appears to be a better and more hopeful feeling among business men generally, and everything is looking toward a prosperous and busy season for Maine the coming year; and just now while the general outlook is so hopeful, to add to our encouragement a new industry makes its appearance, which, if treated in a proper manner, will soon place in the shade all others and become a source of revenue greater than all else combined.

We refer of course to *mining*—something so new and foreign to the people of Maine as almost to take away the breath when they once become convinced of its reality. Few indeed are they who have ever in times past had the remotest idea that Maine was destined to become a *mining State*, and yet it is a fact of which there is no longer room for doubt, and the man who will persist in disbelieving the statement is simply behind the times, and will find it out sooner or later.

It may be well to look at the matter for a moment, and see what grounds we have for such belief.

In the first place every geologist who has ever made any kind of survey of the State, has expressed belief that mining in Maine would some day become an important branch of business. It has been known for many years that the precious metals existed in different portions of the State, ores of copper, lead and even gold, having been found cropping out in various localities. No one, however, had sufficient confidence in the extent of the deposits to go to the necessary expense of sinking a shaft, and conse-

quently the treasures which lay beneath the surface have remained concealed up to the present time.

Many young men of Maine left their homes to seek their fortunes in the gold and silver fields of the far West, and after years spent in prospecting and digging among the rocks of the Pacific Slope, have returned to their native state, to find here precisely the same indications of mineral wealth as led them to success in the wilds of that far away region. To these men belong the credit of having awakened the people of this State to the wealth which lies beneath it, and to them are we indebted for the means by which we are to secure it.

No one who has ever seen the specimens, taken from the surface at hundreds of different localities in the State—the values of which have been determined by reliable assays—can possibly doubt the existence in our midst of *rich ores*. No one can doubt the existence in the State, of *fissure veins*, who places any confidence in the statements of geologists of world-wide reputation, and men who have spent a lifetime in a study of the rocks. The history of *fissure veins* in the mining districts of the West and in other lands, tells us that where such a vein is mineralized at all—where minerals are found at the surface—they invariably increase in richness as depth is attained, and that the bottom of a true fissure lies at an unknown depth and has never yet been reached.

The developments made in Maine all go to prove that this law holds good here as elsewhere, and wherever a shaft has been sunk upon a mineralized fissure vein, the richness of the ores increases with every foot of depth, and the baser metals with which the surface ores were charged rapidly disappear.

Another encouraging fact is—that in many localities (notably the Acton, and Sullivan districts) the ore at a short distance from the surface has acquired a character not reached in many of the mines of the famous Comstock lode until a depth of several hundred feet was attained, and already, samples of ore picked from the dump at the Sullivan mine—which has penetrated farther into the depths than any other within the limits of the State—are scarcely distinguishable even to the practiced eye, from specimens in possession of Prof. Stewart, taken from the Comstock mines.

In view of these facts, taken in connection with the vast difference between the expense of carrying on mining operations here and in the far West—the ease of access and facilities for transportation—the low prices of labor, fuel and supplies—who but he that is blinded by stupidity or something akin to it, can longer doubt that a rich future is in store for the Pine Tree State; and that, notwithstanding her ship-building, lumbering and some of her other interests

are on the wane, she does not propose to take a back seat as yet; but is destined to wield a greater power over the affairs of the Nation than ever before in her history.

The Gold Fields of Maine.

Already the mineral wealth of Maine has been proved a reality, by the discoveries in various localities of rich deposits of galena, copper and silver, and the frequent findings of gold in the beds of many of the streams of the north-western part of the State, and in other places. But it is altogether probable that the real gold-fields of this State will be found in the range of mountains which separate

Maine from Canada and which are a part of the great Appalachian chain stretching from north to south, breaking out here and there in various States and containing in North Carolina and Georgia the famous gold mines of those States.

It has long been known that gold existed in these venerable mountains and some day the prospector will strike upon the rich veins that must be there. An extract from a letter recently written by Prof. C. H. Hitchcock of Dartmouth College, the well-known geologist, says "I have no doubt that considerable gold will be found near the Canadian border in Maine and that careful search for it will be rewarded," and in his *Geology of Maine* published in 1861 says:

"There is an extensive tract in the north-west part of the State in which native gold has been found. It has been seen only in the alluvium, from which some inferred that it came from Canada. Gold was found in Madrid by a returned Californian miner. Between Sandy River and the Canada line, gold has been found in many places. These facts show that there is gold *in situ* in the rocks of Somerset and Franklin counties. We do not think it is all derived from Canadian boulders. It is too widely distributed in the soil, and is too abundant to be of foreign origin. Gold is by no means confined to talcose schist, and may be found in veins in most of the azoic rocks. The rocks of these counties are largely azoic."

The mines of Ditton in Canada, three and one-half miles from the boundary line, and the placer diggings of the Chaudiere have long been worked. In the deposits of Ditton a nugget of gold of the value of \$184 was found. The Chaudiere and many of the streams of Maine in which gold has been found, get their washings from the quartz rock which has crumbled for ages and washed down the sides of those rugged hills into the streams below. The Spider river, a feeder of the Chaudiere, also Dead river, Moose river and Spencer stream, upon all which streams gold has been found, take their rise in close proximity to that part of the boundary between Maine and Canada where occurs the greatest volcanic convulsions and upheavals of that district, causing huge curves in the range as will be noticed in the map of Maine. This is especially noticeable in that township on the boundary line in Range 7 of Franklin County.

Already the attention of New York and other capitalists has been called to this vicinity. A special dispatch to the *Boston Herald*, dated Jan. 9th, says: "Great expectations are indulged in, in regard to the gold mines of Beauce dis-

trict, in this province. In his speech at the banquet to his honor last night, Premier Chapleau said that by June next between five and six thousand miners would be seen in that gold field. Several New York capitalists are interested in the mines, including ex-Judge Dittenhoffer, Cyrus Field and others."

The International Railroad is now completed from Sherbrooke to Lake Megantic, nearly to our State line, and it is reported that the Grand Trunk Railway Company has acquired or is about to acquire the International Railroad with a view of extending it through Franklin and Somerset counties to Blanchard, Maine, completing an air-line to the Maritime Provinces, which must add much to develop the resources of our border.

(From the Boston Economist.)

The Business of Mining.

It may not be unsafe to say that the days of mining speculation, which have proved so delusive and disastrous to a large class of people, can hardly be expected to return.

Gambling in mining stocks will, of course, continue, but on the threshold of the new era for mining enterprise on which we stand to-day it can be seen that mining is henceforward to be a legitimate business, inviting the confidence of capital, regulated by established conditions and rules, and undertaken in the interest, not of "rings," but of honest investors, seeking adequate returns. It is only after this method of conducting the affairs of mining properties, precisely as we would conduct any other business which is recognized as legitimate, that the development of our vast and virgin metalliferous territory can become that commanding branch of industry and that powerful element of the national wealth which is the reasonable expectation of all who are properly informed on the subject.

The time is now come, in the face of the country's new prospect in this regard, to take hold of this great industry in a serious way; to discard all but regular practices; to apply to it the strength and strict rules of business, to concentrate all efforts on the work of production only; and to increase the solid wealth of the country by distributing honest and regular dividends among shareholders. Speculation is to be suffered as almost a necessary attendant on an industry involving such splendid results; but speculation is not to be allowed to grasp the reins and usurp the direction. The old order of things is now to be reversed. We have reached a new era in the national development. A great industry is on the eve of asserting its right to be admitted into the circle of regular industries, confident in its ability to lead and overshadow them all.

This subject was very ably touched by President Gibson before the recent bankers' convention at Saratoga, who told his hearers that no other legitimate industry can show such large and well-sustained profits during the past thirty years, in spite of the fact that mining as a science, had not been much more than experimental. But now the conditions are all marvellously changed, so that mining has become almost an exact science. He added that if it be intelligently, honestly, and prudently conducted, it will yield far larger profits than farming, and with as small an element of risk. Speculation need not cloud it in the esteem of the public,

for speculation is rife in the wheat products and railway shares, and still the production of wheat and the operating of railroads does not cease to be regarded as a regular and legitimate business.

All testimony from competent witnesses concurs in showing that mining as a business yields the surest and the largest rewards of all kinds for the sum of the capital invested in it. It is a property to be developed and made to pay regular returns. There is really no value in a mine until it begins to produce something. All the speculation over it must be either delusive or prospective. There is nothing but disappointment and loss until the mine begins to yield its products of ore and bullion. It is gold and silver and copper and lead that the world needs to-day, and it does not care how much of it is offered. Hence it is only the actual working of mines that the world cares anything about; not the gambling in shares, which may enrich one set of individuals at the expense of another.

The true object, therefore, of those who profess to be interested in the mining development of the country is to wrest this noble interest from the clutch of the speculative spirit, and raise it to the level of a recognized national industry; to clear it of the stigma which attaches to lottery work, and establish it as a regular business, inviting real capital and promising sure and ample rewards. What has been done in the past thirty years in this country is only a suggestion of what remains to be done. But scientific handling and honest management are the prime requisites for the grand success which is in store for us. The United States possesses a solid foundation for its enlarged wealth and power in the vast treasures of its mines, which, if treated according to the accepted rules that govern all business, will give our country the permanent lead for the future among the nations of the globe.

Personals.

W. D. LEWIS, Esq., of Boston, is now on a visit to Maine.

O. H. & W. D. Lewis, of Boston, are interested in several of Edison's inventions.

MR. GEORGE CANNING HILL has assumed editorial charge of the Boston Economist.

MR. I. S. EMERY, of the Maine Mining Exchange, has been ill in Boston for several days.

F. H. CLERGUE, Esq., has recently been to New York on business connected with the Victor Mine.

PROF. W. F. STEWART and a party of Portland gentlemen visited the Acton mines on Saturday last.

DR. W. K. KNOWLES, Secretary of the Darling mine, has gone to Boston and New York in the interest of the Darling.

L. FOSTER MORSE, President, and THOMAS DALBY, Treasurer of the Millbrook Silver Mining Co., have been on a visit this week to the mines of the Sullivan District.

President Hayes has nominated H. W. RICHARDSON of the Portland Advertiser as census supervisor for the western Maine district, and W. P. HUBBARD of Bangor for the eastern Maine district.

HON. F. M. LAUGHTON, of Bangor, is in receipt of a letter from PROF. F. L. BARTLETT in which the latter states that he is meeting with a cordial reception at the hands of the mining men of England.

The citizens of Farmington, N. H. have extended to PROF. W. F. STEWART an invitation to favor them with a lecture. The Dirigo Silver Mine of the Acton lode is owned principally in Farmington.

A Mining Exchange is about to be opened in Ellsworth. MR. L. B. WYMAN will have charge. A large sign "The Miners Exchange" was recently put up. The Exchange is located in the Bank building on State street in that city. It will probably be running in about two weeks.

MR. F. ELLERSHAUSEN, of Nova Scotia, arrived in Bangor on Tuesday evening last. MR. ELLERSHAUSEN is very largely interested in the mining business of that country and in his several copper mines employs now about one thousand laborers. He is to make an examination of the Maine mines.

The Pacific Coast Mining Review thus identifies PROF. W. F. STEWART with the location of the silver mines of the Comstock: "It was, however, of too much importance to the world that the Comstock should be discovered and its vast treasures unearthed, for the rocks to guard their valuable secret longer. During the same winter (1857-8) a Norwegian, James Thompson by name, but better known among his comrades then and to history as 'Snow-shoe Thompson,' was engaged in carrying the mails from Genoa to Gold Canon on foot over the mountains to Placerville. Professor W. Frank Stewart, the well-known Washoe geologist and mining expert, was at that time connected with the Weekly Observer, published at Placerville, and to him Thompson was wont to bring the news from over the mountains and information from all the intervening country clear to Salt Lake. Thompson, at that time, brought to Professor Stewart a small package of black-looking rock, bearing free gold, and wrapped in a piece of common check shirting. He said the boys had found it over in Gold Canon; to them it was a new kind of gold-bearing rock, and they wanted to know what it was. The professor immediately pronounced it 'black sulphurets of silver,' containing free gold. Some specimens were sent to Sacramento to be assayed. The result startled the world. The black stuff was rich beyond compare. The fame thereof went abroad; the great excitement followed; and the next spring thousands went pouring over the mountains into Nevada. Up to this time this ore, assaying thousands of dollars per ton in silver, had been worked by the rude appliances of the day, for the gold which it contained, while the silver was allowed to go to waste."

The Wheel of Fortune.

The Portland Argus says a few evenings ago a party of gentlemen were sitting around the stove in a store in Deering, when a commercial traveller who was present, commenced to tell about Mr. E. C. Bassick, belonging in Belfast, whom he had recently met on the train, and who had suddenly become rich by selling a portion of a Colorado mine.

Another gentleman named Jones, sitting there, began to make inquiries about Bassick, when he found he knew him, and related the following incident:

A good many years ago, Mr. Bassick went to Australia where he accumulated \$20,000. He had decided to come home, and on the last day before he was to start went into the mine, when a rock falling broke two of the joints of the back bone. He was laid up so long, and it cost so much, that when he got well he had just money enough to get home.

After remaining at home some time he went West and made money, but was again unfortunate. Finally he took his family and went to Rosata in Colorado, where he hired out as a day laborer. When he could get no work he would go into the mountains prospecting. Mr. Jones (we will call him) kept a store in the town where Bassick stopped, and finally the latter run up a bill of nearly \$500 for groceries, tools, etc. One day Bassick brought in a specimen of ore and wanted it assayed, but had not money enough to pay the assayer.

Finally Jones became responsible for the assay, and it was made and turned out wonderfully. Jones then loaned Bassick money enough to procure tools, and he went to work. Jones was urged to give \$500 for one half of the mine, but refused. The mine proved a remarkably productive one, and recently Bassick sold a portion of it for a million and a half dollars, it is said, at the same time retaining enough to give him some \$50,000 income.

Nuggets of News.

A son of the emerald isle, engaged at Leadville, in the process of sinking a shaft upon a claim to which his title was somewhat obscure, was asked if he were not in litigation. Bedad, no, surr," was the answer; "sure I'm in porphyry."

The following scene actually occurred a short time since in a hotel at Silver Cliff, Col.:

"What's your order, stranger?" asked mine host of an inoffensive guest.

"Broiled chicken on toast, if you please."

"Which?"

"Broiled chicken on toast, I said, if it can be had."

"Stranger," said the landlord, impressively, drawing a six-shooter, and pointing it at his head, "you want HASH, and you're a god-damn fool. I don't allow no tender-foot to go back on his victuals in this place!"

The newly adopted constitution of California will sufficiently explain the reason for the existing depression of business on the Pacific coast, in the face of the large amount of capital that is accumulated in San Francisco. It furnishes another striking illustration of the folly of trying to run business machinery with political hands. Capital is only showing its instinctive sensitiveness to danger again, being averse to putting itself in the hands of demagogues and idiots. This is only the price which we expected California would have to pay for her new constitution.

THE MINERAL WEALTH OF THE COUNTRY.—Wells, Fargo & Co's annual circular from San Francisco, Cal., giving the product of precious metals west of the Missouri river, including British Columbia (and receipts in San Francisco by express from the West Coast of Mexico), during 1879, shows aggregate products as follows:

Gold, \$32,539,920; silver, \$38,623,812; lead, \$4,185,769. The gross result is less by \$5,805,121 than for 1878.

California shows a decrease in gold of \$140,342 and in silver of \$589,146. Nevada shows a total falling off of \$3,184,235, the yield from the Comstock being only \$8,830,562, as against \$21,295,043 for 1878.

The product for the Eureka district is \$5,589,261, as against \$6,981,406 for 1878.

Utah shows a falling off of \$595,734. Colorado shows an in-

crease of over \$8,000,000, chiefly from Leadville district. It has been exceedingly difficult to arrive at the actual production of Leadville, the two most reliable reports varying more than \$2,000,000. The report adopts the average. Dakota shows an increase of \$993,183.

GEOLOGICAL REPORT

Upon the McFarland Silver Mine, Located at Hancock Neck, County of Hancock, Maine, by W. F. Stewart, Geologist.

ELLSWORTH, Me., Dec. 16, 1879.

That expansive and most picturesque of the innumerable deep fiords and wide inlets along the coast of Maine, which is designated upon the maps as "Frenchman's Bay," is in a fair way to become more famous as a great mining center than it has hitherto been as a safe harbor for fishing craft and as a coveted resort for pleasure seekers.

Directly upon the east and west margins of this magnificent Bay are located the promising mining properties of the Milton, Sullivan, Waukeag, Robert Emmett, Gouldsboro, Grant and many other of lesser note. The surprising fertility of these silver bearing deposits, and the earnest energy with which they are being developed is awakening the profoundest interest in mining circles all over the country, and it is safe to predict that "Frenchman's Bay" will be the grand center of attraction of capitalists in the very near future.

Already the superannuated fogies who have so persistently derided the mining possibilities of Eastern Maine, have been shamed into silence by the actual output of treasure, from almost numberless excavations, and the time is not distant in the future, when these doubting Thomases will either have to "pool their issues" with their enterprising fellow citizens, or by their absence, make room for earnest men who are willing to devote their labor, brains and money to the mining interests of the State.

Quite recently another promising mine has been added to the silver girdle of Frenchman's Bay, upon the charming little peninsula known as Hancock Neck. This property is situated in the town of Hancock at a point four miles south of the village of Sullivan, Hancock County, State of Maine. The mining works are directly on the west shore of the Peninsula and can be readily approached by any kind of sea craft, or by an excellent public highway. In fact this public highway is simply the main County road which extends from Bucksport via Ellsworth to the villages of North and South Hancock. The mine is situated upon the farm of S. W. McFarland, and the mining works are within gunshot of the McFarland House, a famous hotel and summer rendezvous at Hancock Neck. The ore vein was discovered by F. A. McLaughlin, a gentleman who has had some experience in the great mining regions of the Pacific Coast. In fact the property is jointly owned by Messrs. McFarland and McLaughlin, the last named gentleman being the Superintendent of the works of development.

As before stated, the mineralized vein is directly on the margin of the Bay. In fact the exposed portions of the out crop are always obscured by the water at high tide, and any one visiting the spot at that time, would utterly fail to find any indication of the ore channel. The rocks enveloping the vein, are the prevailing silicious schists of that District.

The general trend, or bearing of the schist lamination is a few degrees to the North of East, and a dip of the same—unlike that of the strata on the north and west sides of the Peninsula—is toward the South at an average inclination of from forty to sixty degrees from the horizon. Directly at the mine, and for a distance of one hundred feet, or more, on each side of it, the schist strata lie perfectly horizontal. The quartz vein cuts vertically through these horizontal sections, and maintains a nearly straight course a few points to the west of north and to the east of south. In other words the vein breaks directly across the cleavage lamination of the enclosed schists.

There are numberless instances in other portions of the world, where mineral bearing veins of quartz, barytes, calcspar and other vein stuffs, rest in non-conformable position to the enclosing rocks; but such an occurrence in the Huronian rocks of this region, is cer-

tainly phenomenal, and can only be accounted for by the existence of local disturbing agencies. At low tide there is a clear exposure of the entire beach in the vicinity of the quartz vein and by carefully observing the lithological features of the shore line, five or six strong trap dykes will be readily seen at short intervals along the coast. The dykes vary in trend from nearly north and south to due east and west, but they all or nearly all break through the easterly bearing lamination of the schist strata. One of the largest of the trap dykes, having a lateral diameter of about fifteen feet lies within one hundred feet of the quartz vein, and was doubtless, the direct disturber of the ore channel, as well as of its schistose surroundings. Of course nothing can be offered in explanation of the anomalous conditions of this remarkable mineral deposit, except theoretical speculations. As yet, this lode is merely in process of development, and therefore no reliable conclusions can be reached as to its possible position in the schist at considerable depth from the surface.

When the tide is out the ore vein may be readily traced in a southerly direction from the shore line to the distance of several rods. In the eroded schists the vein appears at points as a narrow seam or band of quartz which occasionally widens into a reticulated silicious mass, two or three feet in diameter. At all points however, the vein contains some traces of mineralization, and within a rod of the bluff—where it has a width of eighteen inches—it is strongly charged with argentiferous galena. In the bluff or bank of the Bay the vein stands nearly vertical and has been exposed to the height of about ten feet. At this bank exposure the vein is about ten inches in diameter and is from top to bottom heavily charged with mineral. Near the verge of the bluff is located the working shaft which is eight feet in width and twelve feet in length, in the clear, and has a depth at this juncture of about twelve feet. Here again the vein stands nearly vertical and is splendidly mineralized with silver bearing lead ore. The surface out-crop of the vein at the shaft opening, was a mere band of quartz, but it rapidly widens as depth is reached, and at the bottom of the shaft is now about a foot in thickness. Although the horizontal condition of the strata renders the position of this vein abnormal and peculiar yet it appears to be perfectly placed in its gangue and has the true indications of a permanent ore channel.

That the ores of this vein even at the surface, contain a considerable percentage of silver has been proved by an assay which was recently made at Sullivan. This test was made by a competent chemist who obtained from the sample twelve dollars worth of the precious metal. In fact this mine, even if the vein is in an odd position is certainly worthy of further development. It is well defined in its walls, and too thoroughly mineralized to admit of the belief that it is a mere accidental deposit. If I am correct in the opinion that it will at no great distance from the surface, follow the true lamination of the underlying strata, then it will doubtless prove to be an extremely valuable property, for we must not overlook the fact that it is located in one of the most fertile silver yielding zones in the State of Maine. The mine is in a rich mineral belt of country; it can be worked expeditiously and inexpensively, as it is convenient of approach by sea and land, and if the owners of the property will proceed cautiously and prudently with the work of development, they may be rewarded by a remunerative silver mine. I say silver mine for the reason that experience has long since demonstrated the fact that fissure veins of argentiferous lead ores, almost invariably end in rich deposits of silver, as depth from the surface is attained. In other words, galena is simply the gossan, or out crop of silver lodes and ultimately gives place to the more valuable metal. As a rule, all of the base ores and refractory minerals which usually occur at the surface of silver bearing veins, rapidly fade out as depth from the croppings is reached, and leave the silver in a comparatively free condition. This fact may be of value to the owners of property under consideration, for if the vein obeys the law of trends as above indicated it is pleasant to know that it is likely to culminate in a mine of free milling silver ores.

Yours Truly,

W. F. STEWART, Geologist.

ANNUAL REPORT

Upon the Douglass Copper Mine by Supt. Gregory.

To the Stockholders of the Douglass Copper Mining Company of Blue Hill, Hancock County, Maine.

In making the first annual report on the condition and present state of said mine, I deem it proper to state concisely of what the property consists, which is as follows:

First—The company own in fee fifty-two acres of land lying on the northern side of Douglass Pond, and it is upon this that the mine is situated, which gives eleven hundred feet length on the vein.

Second—The fee of a wood and timber tract containing about forty seven acres, bounded on the west by the brook running from Third or Wood's Pond to the Douglass Pond, thus securing to the use of the mine forever one-half of the water privilege on said brook.

Third—They have a lease for twenty-five years of the opposite, or western side of said brook, above the road leading past the mine, thus securing full control of the water in said brook (which is the only outlet of Third Pond) for twenty-five years.

Fourth—The company have the right under a deed to take water from said Third Pond, by canal or syphon, across the land opposite the mine and extending from the road to said Third Pond, thus securing forever the water of said Pond to the mill, and is a very valuable adjunct to the mine.

The developments thus far made have been chiefly confined to the vein now being worked, which has been opened at intervals on the surface for a distance of about three hundred feet, showing a strong vein the entire length. Two shafts have been sunk, the main one to the depth of eighty feet, its dimensions in the clear being six feet by twelve. Drifts have been run east and west from this shaft, the western one forty feet and the eastern one thirty feet, with an average width of twelve feet. The amount of ore displaced at this shaft, on a basis of ten cubic feet to the ton, is seven thousand eight hundred and seventy tons. The other, or east No. 1 shaft has been sunk thirty-three feet, dimensions in the clear five by ten feet. When this shaft was started the intention was to sink vertically on the north, or foot wall side, taking down on the hanging with the dip of the vein. But after sinking twenty feet and finding eighteen feet in width of ore, and no wall, it was deemed advisable to leave a portion and confine the shaft to the hanging wall side. The amount of ore displaced here on the basis of ten cubic feet to the ton, is four hundred and seventy-five tons. There is a six horse power hoisting engine used for hoisting at the main shaft, while at east No. 1 shaft hoisting is done by means of horse power with a single whip. Since last September water has been taken from the brook running out of Third Pond and some fifteen hundred feet from the main shaft, and forced by an hydraulic ram into a tank holding about twelve thousand gallons situated near the main shaft; this tank has been of great advantage and benefit, furnishing a supply of water for use of the engine and for washing ore. An adit level has been commenced which will serve in a threefold capacity. *First*—To take the surface water from the mine. *Second*—It will prospect a portion of the property with the expectation of finding more veins of ore. *Third*—It will constitute a portion of a flume to take water from the Third Pond to the mill if it should ever be necessary to do so.

The following buildings have been erected during the past year. *First*—Main building over main shaft 36x81 feet, used for engine and shaft house, wood and coal shed, for washing and cobbing ore, and as a dressing and store room. *Second*—East No. 1 shaft house 24x24 feet, blacksmith shop twenty by twenty-four feet, office and carriage house twenty-two by thirty-six feet, magazine eight by eight feet, outbuildings six by twenty feet.

Eleven thousand eight hundred and twenty-five dollars and seventy-eight cents have been expended since the organization of the company in the following manner: *First*—Pay rolls, six thousand and fifty dollars and twenty cents. Wood and timber land purchased, three hundred and twenty-five dollars. Lumber for build-

ings, timber for mine, powder, steel mining supplies in general, five thousand four hundred and fifty dollars and fifty-eight cents. For items would refer you to monthly and general bill. I would advise connecting main and No. 1 shafts by drifting east from main and west from No. 1 shaft following the course of the vein. Also continue west drift during the present winter. Also to sink both shafts as fast as possible with day and night shifts; in so doing we will be able when this work is completed to make a daily output of one hundred and fifty tons, or more if required. Would also advise driving adit level as fast as possible until completed.

In conclusion would say, the mine has shown a marked improvement in richness of ore as depth is attained, more especially in the last twenty feet in depth sunk.

All of which is Respectfully Submitted.

H. L. GREGORY,
Superintendent.

Blue Hill, Dec. 31, 1879.

Book Notices.

MINING: ITS THEORY AND PRACTICE. BY JOHN M. STUART, M. E.

We are in receipt of a publication entitled "Mining, its Theory and Practice" by John M. Stuart, M. E., of New York. It is a work of sixty pages, neatly printed, and very thoroughly illustrated. It describes CLASSES OF ROCKS, MINES, PLACER GOLD MINES, FISSURES, GOLD QUARTZ MINING, SILVER MINES, DEVELOPMENT, CONTACT VEINS, SILVER ORES, PROSPECTING and MINING INVESTMENTS. It contains over twenty handsome illustrations, is printed on very excellent quality of paper and is neatly bound in cloth. Mr. Stuart is a mining expert of acknowledged reputation and the work is very highly recommended by the leading mining men. The treatise is designed especially for the benefit of investors and operators in mining property. The price is \$1.50, postage paid. It can be obtained by remitting the above to the MAINE MINING JOURNAL, Bangor, Maine.

WEEKLY NEWS FROM THE MINES.

[We earnestly request superintendents of mining operations to send in from time to time such information and actual facts as shall assist in showing up their properties, together with specimens of ores, maps, etc., which will be on exhibition in our office. We wish to make this department as complete as possible and in order to do so, we must necessarily have the co-operation of all who have mining works in charge. It is of the utmost importance, however, that correspondents should deal with actual facts rather than probabilities.]

The general news from the mines this week is of an extremely encouraging nature, rich finds having recently occurred in some localities, and from nearly every property where ore is being taken out, it is rapidly increasing in quantity and improving in quality. Too much must not be expected however at present as many of the companies are engaged in erecting buildings and putting in new machinery, and getting their works into a more substantial condition, with a view to rushing matters in the Spring.

LAWRENCE.—Work will commence on this property in a few days.

QUEEN CITY.—The sinking of the shaft progresses. It has now reached a depth of 17 feet. The ore improves as depth is attained.

HAMPDEN.—The work of timbering the shaft continues. Twin engines that will work 16 horse power and a boiler of 18 horse power have just been obtained. The shaft has reached a depth of over 90 feet. As soon as the timbering is completed the work of sinking the shaft will be pushed with vigor.

NOROMBEGA.—We received to-day some handsome specimens of ore taken from this property in Hampden. Eight men are now at work, and the shaft started last week is down about 6 feet where the vein is 3 feet in width.

CORINNA.—The shaft is now down about 35 feet. It is proposed to sink to a considerable depth and then drift and strike the vein. A blacksmith shop has been erected.

LEE.—Mr. C. A. Cushman of Lee has made numerous discoveries of mineral in that town. He has recently exhibited in

Bangor some promising ore. One of the specimens was good antimonial sulphuret of silver.

EARLY DAWN.—It is not probable that work will commence at the Early Dawn before spring.

LITTLE SUE.—The Little Sue Silver Mining Company was organized in Ellsworth a few days since. The mine is located in the town of Lamoine in Hancock County. The capital stock is \$500,000 shares of a par value of \$5. The officers are President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins; Directors, H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Swett and James W. Davis. It is proposed to commence operations at once.

EGYPT.—The Egypt Silver Mining Company was organized recently in Ellsworth. The property of the company is located in the town of Franklin in Hancock County. The officers are, President, James F. Davis; Treasurer, A. W. Greeley; Secretary, E. E. Brady, and Directors, James F. Davis, A. W. Greeley, E. E. Brady, A. H. Norris, O. M. Byrn.

ROBERT EXETER.—A vertical shaft is being sunk. The shaft is being sunk 40 feet from the vein and it is expected that the vein will be struck at a depth of 40 feet.

WESTERN UNION.—The property is located in the town of Hancock. It is owned largely in Bangor. Mr. Harry Bliss, of the Western Union Telegraph Office in Bangor, is one of the principal owners. It is proposed to organize very soon.

GRANT.—A day and night crew are being employed. The shaft is a vertical one and has now reached the depth of 51 feet. The shaft is being sunk 100 feet from the vein and it is expected that the vein will be struck at a depth of 100 feet.

SULLIVAN.—The vein in the west drift of No. 1 shaft is six feet wide, with a good showing of rich ore. Shaft No. 2 is expected to cut the vein at a depth of 250 feet.

WAKEBAG.—This company is engaged in sinking their shaft which has now penetrated the ledge to a distance of 106 feet. The vein is to be cut by a crosscut from the 150 foot level.

MILTON.—Three regular working crews are daily employed on each shaft. Shaft No. 1 is down 110 feet and is now in vein matter of a very favorable nature. The machinery for the mill is upon the ground, and will be put up and set in operation at once. Everything about the mine betokens prosperity. The machinery is all paid for and the outstanding indebtedness is very small.

MORANCY.—A mine is about being opened on the Hill farm on the Morancy road in Sullivan. Bucksport parties have purchased the property and a company will be organized soon. It will be known as the Morancy.

GOULDSBORO.—The ore continues to improve in quality, and the vein has completely filled the shaft. The ore is principally galena and very rich in silver. Extensive additions will be made to the working outfit early in the coming season.

VICTOR.—This property is distant about two miles in a southerly direction, from the town of Gouldsboro, and embraces 1100 feet of vein. The openings on the vein, which is 4-2 feet wide at the surface, consist of an open cut 40 feet long, a shaft 6x9 to a depth of 20 feet, and two shallow prospecting shafts. New York parties are negotiating for the purchase of the entire property.

HECTOR.—The property of this company consists of one and one-fourth miles of the great Gouldsboro lode, extending from the Globe property on one side to the sea on the other. The vein is white quartz, and varies in width at the surface from 8 to 26 inches. Two shafts 5x9 feet have been started, No. 1 having reached a depth of 15 feet, and No. 2, 20 feet. A blacksmith shop and ore house have been erected, and a crew of men are sinking in the northern shaft at the rate of 1 foot per day.

BANGOR & BLUE HILL.—The shaft has reached a depth of 65 feet. The vein is 8 feet in width between the clay seams. The ore carries gold and silver in good quantities. A whim and shaft house have been erected. Night and day crews are being employed.

BISBEE.—The stockholders of the Bisbee Copper Mining and Smelting Company met at Belfast recently and voted to hold their individual stock and place only the Treasury stock on the market. They also instructed the President of the Company to purchase steam power for hoisting and to erect buildings necessary to the prosecution of the work in the mine and to employ as large a force as can be profitably worked in the shaft. The mine looks more promising every day as the work progresses and the Treasury stock is now selling for two dollars per share. The directors are satisfied that developments will soon be made that will send it up to par. On Thursday of last week an explosion occurred at the mine demolishing the blacksmith shop. The blacksmith, Andrew Superforth, was warming the cartridges by the stove as has been the custom

before putting them into the rock and it is supposed that the glycerine oozed out and caught fire causing the fatal accident. Mr. Superforth received about twenty wounds, the largest on the left leg caused by a piece of the stove striking him with terrific force. His injuries were very severe and it was expected they would result fatally.

STOVER HILL.—Work is progressing rapidly at Stover Hill. Three shifts of men, fourteen in all, are being employed. When the shaft has reached a depth of 100 feet it is proposed to drift north and cut the veins. There are five well defined veins on the property and they will all be worked by cross cuts from the central shaft. A shaft house and blacksmith shop 20x40 feet in size has been erected. There is good ore in the shaft. The ore is sulphuret of copper and is among the best yet taken from the Blue Hill region. Twelve tons of fine ore were taken out one day recently.

TRIO.—The property is located at Blue Hill Neck. The mine derives its name from the existence of three well defined veins of mineral on the property.

WHITE STAR.—The White Star Copper and Silver Mining Company was organized this week at Bangor. The property of the company is located near Blue Hill village to the east of Stover Hill.

DEER ISLE.—No. 1 shaft is now down 45 feet, and the ore vein is constantly improving both in quantity and quality. The ore is massive for two feet in width, showing galena with silver glance. All the tests show free gold in sufficient quantity to make the mine a paying one for gold alone—saying nothing about the silver, lead and copper.

RIVERSIDE.—Work was started on the Jerc. McIntire property, on the east side of Rockport Harbor, Dec. 3. A shaft house was erected and the work conducted night and day through the tough cap of quartzite, which had slid over the vein at this point, but being at the junction of a cross vein with the main vein.

The main vein crops out on the shore and can be traced for 2,000 ft. It is a contact vein between limestone and schist, the foot wall of limestone being fully defined. The course is north-west to southeast, and the dip is 1 in 8. The gangue is quartz, calcspar and lime, with a large percentage of iron pyrites, arsenical iron, some sulphurets of copper, lead and silver, carbonates of iron and lead with a trace of gold. Assays of \$14, \$19, \$20, and \$22 in silver per ton have been obtained from selected rock, (specimens from the surface.)

The shaft is started on the ridge, about 200 feet above the water, and the vein can be tapped by a tunnel about 200 feet long, 100 feet in rock, with a good wharf privilege at the mouth of said tunnel, where all ore extracted for several years, can be shipped for reduction. This will save the expense of hoisting machinery, and pumps. Other prospects have been opened in close proximity to the main vein, by Mr. Page, which bid fair to yield well. Buildings have been erected, a blacksmith shop established, and every preparation made that is necessary to pushing the enterprise rapidly ahead during the coming season, when ore will be shipped to the reduction works.

BOSTON ACTON.—The work upon this property consists of a series of open cuts and prospect pits along the line of the Acton lode. The mineralization of the vein, wherever it is exposed, indicates that its ores are very similar to those of the Acton, and Portland Acton.

PORTLAND ACTON.—The property of the Portland Mining Company consists of 500 feet, linear measure, of the great Acton Silver lode. The south line of the Portland is the north end line of the Acton, and its northern limit is the south end line of the Boston location. The shaft has reached a depth of 26 feet, and the vein exposures made by open cuts at different points along the line of the lode, show that the vein is fully mineralized by the same minerals which appear in the Acton. In fact the Portland is simply an extension, or continuation of the Acton lode, and as its geological, lithological and mineralogical features are evidently identical with the Acton, it is reasonable to conclude that, upon further development, the Portland is likely to prove of equal value to its older neighbor on the south of it.

GRAFTON.—The Grafton Copper Mining Company was recently organized in Portland under the laws of the State of Maine. The property of the company is situated in Bath, County of Grafton, State of New Hampshire. The officers are, President, Franklin J. Rollins; Treasurer, Stephen C. Berry; Directors, Franklin J. Rollins, Clarence Hale and Stanley T. Pullen. The capital is \$500,000 and shares of a par value of \$10.

GARDNER MOUNTAIN.—Samples of ore taken from the shaft yield from 11 to 31 per cent. of pure copper. The work will be pushed during the winter so that the mine will be in first-class working order by Spring. As the company have reserved one-fourth

of the capital stock for treasury purposes, they have ample means to place the mine upon a substantial working basis.

OSHKOSH.—The Oshkosh Consolidated Mining Company will be organized in a few days under the laws of the State of Maine. The property is located in Silver Cliff in the State of Colorado. The capital will be \$500,000 in 250,000 shares of a par value of \$2. Some of the ore taken from the mine has assayed as high as eleven hundred ounces of silver to the ton.

Prices at New York Mining Exchange.

(HIGHEST AND LOWEST FOR EACH DAY OF THE WEEK ENDING TUESDAY, JANUARY 20, 1880.)

NAME.	WED.		THURS.		FRI.		SAT.		MON.		TUES.	
	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Amer. Flag	185	185	175	175	.....	.....	.....	.....	215	215	.....	.....
Bechtel	170	170	175	170	.....	.....	180	180	.....	.....	.....	.....
Belle Isle	9 1/2	9 1/2	9	9	.....	.....	7 1/2	8 1/2	8	8	700	700
Bodie	57	57	55	50	.....	.....	.....	.....	53	52	56	53
Buckeye	10 1/2	10	11	10 1/2	.....	.....	.....	.....	11 1/2	10 1/2	10 1/2	10 1/2
Bulwer	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Calcedonia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Caledonia, B. H.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
California	.....	.....	450	450	.....	.....	450	445	450	450	.....	.....
Con. Pacific	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Con. Virginia	465	460	470	405	.....	.....	475	470	450	470	450	480
Dahlonega	19	19	19	18	.....	.....	.....	.....	19	19	20	19
Eureka	.....	.....	.....	.....	16 1/2	16 1/2	.....	.....	.....	.....	16 1/2	16 1/2
Findley	65	65	.....	.....	.....	.....	.....	.....	61	61	63	63
Gold Placer	30	30	29	29	.....	.....	28	28	28	28	.....	.....
Goodshaw	47	45	.....	.....	.....	.....	.....	.....	.....	.....	40	40
Grand Prize	.....	.....	150	150	.....	.....	.....	.....	.....	.....	.....	.....
Granville	45	44	.....	.....	.....	.....	44	44	45	45	45	45
Great Eastern	49	49	50	49	.....	.....	48	48	52	50	52	52
Green Mountain	225	220	220	220	.....	.....	225	225	230	225	230	225
Hukill	455	440	425	415	.....	.....	420	415	460	425	460	445
Imperial	82	82	86	86	.....	.....	93	93	100	97	95	95
Independence	120	120	100	95	.....	.....	.....	.....	85	85	84	83
La Plata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lacrosse	57	56	56	54	.....	.....	52	50	52	52	53	53
Leadville	.....	.....	890	890	.....	.....	360	350	375	375	370	370
Lucerne	21	20	20	20	.....	.....	.....	.....	.....	.....	17	17
Moose	305	295	290	280	.....	.....	280	275	275	275	270	270
Nevada	45	45	42	42	.....	.....	42	42	.....	.....	.....	.....
New York & Col.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No. Standard	.....	.....	.....	.....	.....	.....	.....	.....	195	195	.....	.....
Plumas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rappahannock	38	38	35	33	.....	.....	.....	.....	39	37	.....	.....
Shamrock	.....	.....	.....	.....	.....	.....	105	100	110	110	.....	.....
South Hill	330	330	323	315	.....	.....	330	325	340	325	335	330
Sierra Nevada	.....	.....	.....	.....	.....	.....	24	24	.....	.....	.....	.....
Toga	295	295	.....	.....	.....	.....	325	325	320	320	355	345
Tip Top	350	350	295	290	.....	.....	320	320	.....	.....	.....	.....
Tuscarora	30	30	.....	.....	.....	.....	.....	.....	31	27	26	25

Portland Mining Exchange.

The following are the closing prices at Portland Mining Exchange, Jan. 19th, by T. H. Mansfield & Co., of Exchange street:

Blue Hill	7 00
Portland Acton	11 1/2
Forest City Acton	11 1/2
Acton	1 65
Douglas	15
Darling Silver	6 00
Waukeag	1 00
Milton	5 00
Mineral Hill	2 50
Edgemoggin	1 10
Ammonoosuc Copper Mining Co. of Gardner Mountain, N. H.	1 00
Deer Isle	1 00
Clark Silver	10
Young Hecla	1 00

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JANUARY 21, 1880.

NAME.	THUR.	FRI.	SAT.	MON.	TUES.	WED.
ACON	18	18	21*	20 1/2	21	.....
Ashley	\$2 00	\$2 00	\$2 00	\$2 00	.....	.....
Atlantic	1 65	1 65	1 67 1/2	1 67 1/2	1 75	.....
Blue Hill	7 75	7 50	7 50	7 50	7 50	.....
Corinna	1 00	1 00	1 00	1 00	1 00	.....
Cherryfield	2 00	2 00	2 00	2 00	2 00	.....
Darling	50	50	50	50	50	.....
Deer Isle	.....	1 00	1 00	1 00	1 00	.....
Drigo	1 00	1 00	1 00	1 00	1 00	.....
Douglas	5 75	5 75	5 75	5 75	5 00	.....
Forest City	11 1/2	11 1/2	11 1/2	10 1/2	11 1/2	.....
Fort Knox	50	50	50	50	50	.....
Gouldsborough	4 25	4 25	4 25	4 25	4 25	.....
Grant	3 00	3 00	3 00	3 00	3 00	.....
Hampden	19 1/2	19 1/2	19 1/2	12 1/2	12 1/2	.....
Harrington	30	20	20	23	22	.....
Home	2 00	2 00	2 50*	2 50*	2 50	.....
Milton	3 00	3 00	3 00	3 00	3 00	.....
Mineral Hill	50	50	50	50	50	.....
Owls Head	18	18	15	15	18	.....
Petit Menan	1 00	1 00	1 00	1 00	1 00	.....
Portland Acton	12	12	13 1/2*	12 1/2*	12 1/2	.....
Robert Emmett	2 50	2 50	2 50	2 50	2 50	.....
Sullivan	11 50	11 50	11 50	10 1/2	11 00	11 00
Twin Lead	2 00	2 00	2 00	2 00	2 00	.....
Waukeag	7 50	7 50	7 50	7 50	7 50	.....
Young Hecla	.....	.....	.....	.....	1 00	.....

*Sales. †Asked.

Closing Prices of San Francisco Mining Stocks,

FOR THE WEEK ENDING TUESDAY, JAN. 20, 1890.

NAME.	Wed.	Thur.	Fri.	Sat.	Mon.	Tu. s.
Alpha	11			11	10 1/2	11 1/2
Alta	4 1/2	4 1/2	4 1/2	4 1/2	5 1/2	5 1/2
Argenta	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bechtel	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Belcher	9 1/2	10 1/2	9 1/2	13 1/2	10 1/2	10 1/2
Belvidere	1	27 3/4		27 3/4	1 1/2	1 1/2
Belle Isle	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2
Best and Belcher	13	18 1/2	18 1/2	14 1/2	13	18 1/2
Black Hawk	1 1/2	18 1/2	29 3/4		1 1/2	1 1/2
Bodie	9	8 1/2	8 1/2	7 1/2	7	8 1/2
Boston Con.	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bullion	4 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Bulwer	10 1/2	10 1/2	12		11 1/2	11 1/2
Caledonia	1 1/2	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2
Caledonia B. H.	3	2 1/2	2 1/2	2 1/2	3 1/2	3 1/2
California	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Chollar	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Confidence	4 1/2	5	5	4 1/2	5	4 1/2
Con. Pacific	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Con. Virginia	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Dudley	19 3/4	9 1/2	11 3/4	21 3/4	3 1/2	1 1/2
Eureka Con.	17 1/2	17 1/2	16 1/2	15 1/2	16 1/2	16 1/2
Eschequer	8 1/2	8 1/2	4	4 1/2	4	4
Golden Terra	18					
Gould & Curry	6 1/2	6 1/2	6 1/2	7	6 1/2	6 1/2
Grand Prize	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Goodshaw	19 3/4	11 3/4	18 3/4	18 3/4	18 3/4	18 3/4
Hale & Norcross	8 1/2	6 1/2	5 1/2	8 1/2	8 1/2	8 1/2
Hillside	1 1/2	3				
Imperial	27 3/4	27 3/4	15 1/2	1	1	27 3/4
Independence	1	29 3/4	29 3/4		1 1/2	1 1/2
Julia Con.	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Justice	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Jackson	8 1/2	5 1/2	13 1/2	1 1/2	1 1/2	13 1/2
Lady Washington	21 3/4	18 1/2	18 1/2	21 3/4	1 1/2	1 1/2
Leeds	18 1/2	18 1/2	18 1/2	21 3/4	2 1/2	2 1/2
Leopard	18 3/4	18 3/4	7 1/2	1 1/2	1 1/2	7 1/2
Leviathan	18 3/4	18 3/4	1 1/2	1 1/2	1 1/2	1 1/2
Martin White	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Mammoth Mine	9 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Mannhattan	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Merkaba	19 1/2	19 1/2	19 1/2	20 1/2	17 1/2	19 1/2
McClinton	15 1/2	9 3/4	21 3/4	1 1/2	1 1/2	1 1/2
Mono	6 1/2	7	6 1/2	7	6 1/2	6 1/2
Northern Belle	10 1/2	9	9	9 1/2	9 1/2	9 1/2
North Bonanza	19 3/4			1 1/2	1 1/2	1 1/2
Noonday	5	4 1/2	5	4 1/2	5	4 1/2
North Belle Isle		1 1/2	1 1/2			
Ophir	20 1/2	19 1/2	19 1/2	20	18	19 1/2
Overman	9 1/2	8 1/2	8 1/2	9 1/2	9 1/2	9 1/2
Potosi	4 1/2	5	5 1/2	5 1/2	5 1/2	5 1/2
Raymond & My.	1		1	1	1	29 3/4
Real del Monte	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Savage	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Scorpion						
Seg. Belcher						
Sierra Nevada	21 1/2	21 1/2	22 1/2	22	19 1/2	22 1/2
Silver Hill	27 3/4	27 3/4	1 1/2	1 1/2	1 1/2	1 1/2
Silver King	6 1/2	7	6 1/2	6 1/2	1 1/2	1 1/2
Syndicate	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
So. Bulwer	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
So. Noonday	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Tioga	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Tip Top	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Tuscarora						
Union Con.	46 1/2	46 1/2	47	47	48 1/2	48 1/2
Utah						
Wates	3 1/2	3 1/2	3	3 1/2	3	3
Yellow Jacket	11	10 1/2	11 1/2	11 1/2	12 1/2	13

Prices at Boston Stock Exchange,

(FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 21, 1890.)

NAME.	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Blue Hill Copper	8	8	7 1/2	7 1/2	7 1/2	8 1/2
Calumet & Hecla	22 1/2	23 1/2	23 1/2	24 1/2	24 1/2	25 1/2
Central	40	40	41	40	41	42 1/2
Copper Fall	6 1/2	6 1/2	6 1/2	7 1/2	7 1/2	7 1/2
Duncan Silver	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Franklin	36	36 1/2	37 1/2	38 1/2	39 1/2	40 1/2
International	60	60	60	60	60	60
Messard	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
National	6	5 1/2	5 1/2	6	6	6 1/2
Oxford	37 1/2	38 1/2	40	41	42	43 1/2
Pasocota	64 1/2	65	65	65	65 1/2	66 1/2
Pewabic	82	82 1/2	83 1/2	84	84 1/2	85 1/2
Quincy	21 1/2	22 1/2	23 1/2	24	24 1/2	25 1/2
Ridge	21 1/2	22 1/2	23 1/2	24	24 1/2	25 1/2
Silver Islet	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Sullivan	11	10	10 1/2	11	10	11

Maine Mining Directory.

INCORPORATED COMPANIES.

Atlantic Copper Mining Company, Blue Hill, Me.
Blue Hill Copper Mining and Smelting Co., Blue Hill, Me.

Bangor & Blue Hill Copper Mining Co., Blue Hill, Me.
Bisbee Copper Mining and Smelting Co., Blue Hill, Me.

Douglass Copper Mining Co., Blue Hill, Me.
Stover Hill Copper Mining Co., Blue Hill, Me.
Twin Lead Copper Mining Co., Blue Hill, Me.
Darling Silver Mining Co., Blue Hill, Me.
Ashley Silver Mining Co., Sullivan, Me.
Millbrook Silver Mining Co., Sullivan, Me.
Milton Mining and Milling Co., Sullivan, Me.
Sullivan Silver Mining Co., Sullivan, Me.
Waukeag Silver Mining Co., Sullivan, Me.
Grant Silver Mining Co., Hancock, Me.
Hancock Silver Mining Co., Hancock, Me.
Hagan Silver Mining Co., Hancock, Me.
Robert Emmett Silver Mining Co., Hancock, Me.
Gouldsboro Silver Mining Co., Gouldsboro, Me.
Home Silver Mining Co., Gouldsboro, Me.
Cherryfield Silver Mining Co., Cherryfield, Me.
Petit Menan Silver Mining Co., Petit Menan, Me.
Edgemoggin Silver Mining Co., Sedgwick, Me.
Deer Isle Silver Mining Co., Deer Isle, Me.
Ow's Head Silver Mining Co., South Thomaston, Me.
Riverside Mining Co., Camden, Me.
Acton Silver Mining Co., Acton, Me.
Portland Acton Silver Mining Co., Acton, Me.
Forest City Silver Mining Co., Acton, Me.
Dirigo Silver Mining Co., Acton, Me.
Hampden Silver Mining Co., Hampden, Me.
Harrington Silver Mining Co., Carmel, Me.
Mount Pleasant Silver Mining Co., Levant, Me.
Queen City Silver Mining Co., Bangor, Me.
Maine Silver Mining Co., Dexter, Me.
Corinna Silver Mining Co., Corinna, Me.
Mineral Spring Silver Mining Co., Pamyra, Me.
Orient Silver Mining Co., Newport, Me.
Lubec Silver Mining Co., Lubec, Me.
Mineral Hill Mining Co., E. Wakefield, N. H.
Oxford Silver Mining Co., Milton Plantation, Me.
Lone Star Silver Mining Co., Woodstock, Me.
East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
Early Dawn Silver Mining Co., Hancock, Me.
McFarland Silver Mining Co., Hancock, Me.
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Norumbega Silver Mining Co., Hampden, Me.
Bay View Silver Mining Co., Blue Hill, Me.
Fort Knox Silver Mining Co., Prospect, Me.
Lawrence Silver Mining Co., Hampden, Me.
Globe Silver Mining Co., Gouldsboro, Me.
Little Sue Silver Mining Co., Lamoine, Me.
Egypt Silver Mining Co., Franklin, Me.
White Star Silver and Copper Mining Co., Blue Hill, Me.

PRIVATE COMPANIES.

Young Hecla Silver Mining Company, Blue Hill, Me.
Gray Silver Mining Co., Blue Hill, Me.
Welcome Mary Copper Mining Co., Blue Hill, Me.
Whitten Silver Mining Co., Hancock, Me.
Clapham Silver Mining Co., Sullivan, Me.
Tugassa Silver Mining Co., Sullivan, Me.
Pine Tree Silver Mining Co., Sullivan, Me.
Sowle & West Silver Mining Co., Gouldsboro, Me.
Hector Silver Mining Co., Gouldsboro, Me.
Britton Silver Mining Co., Cherryfield, Me.
Trescott Silver Mining Co., Lubec, Me.
St. George Silver Mining Co., Lubec, Me.
Denbo Point Silver Mining Co., Lubec, Me.
Snow Silver Mining Co., Bucksport, Me.
Fowler Silver Mining Co., Hampden, Me.
Wing's Mill Silver Mining Co., Hampden, Me.
Eastman's Silver Mining Co., Hampden, Me.
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Porter Silver Mining Co., St. Albans, Me.
French Silver Mining Co., St. Albans, Me.
Holland Silver Mining Co., St. Albans, Me.
Boston Acton Silver Mining Co., Acton, Me.
Silver Wave Silver Mining Co., Acton, Me.
Emma Albina Silver Co., No. Penobscot, Me.
Lady Elgin Silver Mining Co., Blue Hill, Me.
Blue Hill Central Copper Mining Co., Blue Hill, Me.
Favorite Copper Mining Co., Blue Hill, Me.
Western Union Silver Mining Co., Hancock, Me.
Morancy Silver Mining Co., Sullivan, Me.
City of Boston Copper Mining Co., Blue Hill, Me.

ACTON SILVER MINING COMPANY, ACTON,
Incorporated Oct. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Bennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
MR. COFFEY, Supt.

ATLANTIC COPPER MINING CO., BLUE HILL,
Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Biagg, Bangor. Directors—F. M. Laughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St. Portland Me.
E. L. O. ADAMS, Manager.

BANGOR & BLUE HILL COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1878.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Geo. Brooks, Orono. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodson, Bangor; Geo. Brooks, Orono; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.
B. O. CUTTER, Supt.

BLUE HILL COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manerling Emery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. A. Bisbee, Camden. Treasurer and Secretary, Hon. S. E. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. E. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindie.
A. I. BROWN, Manager.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William A. Sampson.
CHAS. W. DRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Bangor, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Frank P. Wood, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Frank P. Wood, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. F. Bragg, C. H. Huckins, W. P. Hubbard.
E. M. LE PROHON, Supt.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D. Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

FOREST CITY SILVER MINING COMPANY,
Acton, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emory S. Reddon, Portland; Assistant Secretary, H. W. Plinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Baker, James E. Sturges, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Samuel Atwood, Winterport, Me. Treasurer, Henry T. Sanborn, Winterport, Me. Secretary, Walter Haley, Winterport, Me. Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.
Supt.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burritt, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burritt, Eugene Hale.
W. I. VALENTINE, Supt.

HAMPDEN SILVER MINING COMPANY,
Hampden, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

HARRINGTON SILVER MINING COMPANY,
Carnuel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor. Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. F. Wiggin, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley Q. Traak, Geo. W. Sweetser.
Supt.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James K. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000, par value \$5 each. Unassessable.
JOHN SROENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F. A. McLAUGHLIN, Supt.

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Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, J. S. Kicker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Kicker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO.,
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 10,000 Shares.
President, Weston F. Milliken; Treasurer, James L. Racklin, Secretary, Chas. D. Clark, Directors, W. F. Milliken, Chas. McCarthy, Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.
Supt.

QUEEN CITY SILVER MINING COMPANY,
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Kicker, Bangor; Treasurer, Chas. High, Bangor; Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Leander Palmer, J. W. Thompson, George E. Dillingham.
Supt.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Archer, Ellsworth. Directors—Henry Whiting, Marcus Muttan, James F. Davis, Guy Muttan, A. A. Bartlett.
P. MULLAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Kicker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Kicker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orono; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, 10,000 Shares.
President, Geo. B. Brown, Boston. Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston. Directors, Geo. B. Brown, Joseph G. Russell, Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Richards.
B. P. TILDEN, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John H. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Kicker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
C. W. REMPTON, Supt.

Maine Mining Journal.

DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

Vol. 1. No. 5.

BANGOR, MAINE, JANUARY 30, 1880.

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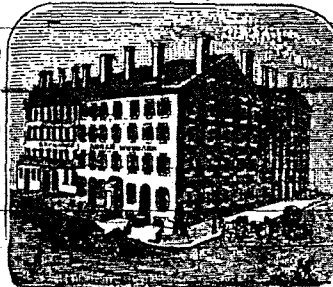
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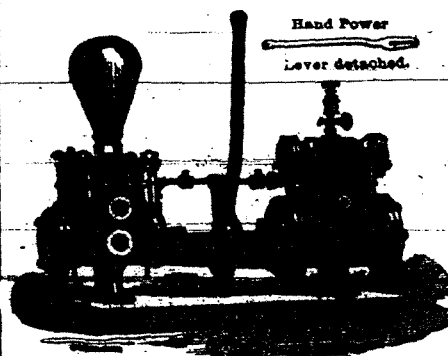
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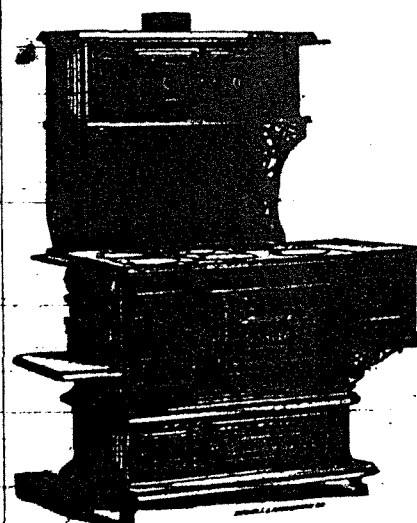
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, EDITOR.
W. F. BLANDING, EDITOR.

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 15 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 30, 1880.

ADVISORY.

To an intelligent observer, it must be apparent that the mining industry will hold the highest place in the business interests of the people of Maine, for a few years to come, to say the least.

Whether it is to become a permanent industry is not yet, of course, settled beyond a doubt, nor can it be until time has shown that the actual out-put of treasure will have paid for the mining works established, the labor required to produce the ore, and have left a surplus to divide among the stockholders. Then, if plenty of ore still remains behind, as a base for future operations, its permanency is assured.

No one for a moment pretends that the mines of Maine (with perhaps one or two exceptions), have as yet reached that point. Every one, however, who has been at all familiar with the development of other mining localities, after an examination of the mining districts of this State, has no hesitation in expressing most unqualifiedly his belief that the mineral deposits are of immense value. Certain it is, that geologists and scientific men have long realized it; old miners who have gained a competence on the Pacific coast and in other localities and returned to their old homes to enjoy its benefits the remainder of their days, having, as they supposed, retired from active business, are showing their confidence by expending large sums in costly machinery and buildings and investing largely in the stocks of the various companies; capitalists from abroad, many of whom have in times past lost heavily in western mines and who are naturally somewhat shy of all such new ventures, are already seeking investments in Maine mines and mining stocks; and lastly, the business men generally throughout the State are gradually coming to a realization of the fact, that what at first seemed to be but a brief excitement, has developed into a promising industry, and bids fair to become of sufficient magnitude to dwarf all others in comparison.

The men now engaged in the business are, as a class, experienced miners and energetic men, and if there is anything here worth having, they are bound to find it if it takes their

last dollar. As a proof of this, many of the mining establishments have already in position machinery capable of driving and working the shafts to a depth of 800 feet, and money enough with which to do it. If ore is not found at that depth in sufficient quantity to pay for working, they will be obliged to give it up, but it is obvious that it will require several years to reach that point, and they do not propose to give up until they do.

As mining, then, has become one of our legitimate branches of business, and as so many are already interested to a greater or less extent and many more daily falling into line, a few words of advice may not be considered out of place.

First, to those who have no faith in the mines and their value.—Nobody asks you to believe in them; nobody solicits your capital. If you cannot say a good word for a noble industry striving to assert its right, say nothing; otherwise you might say some things you would give much in after years to recall.

Second, to those who have confidence in the future prospects of mining in Maine, and wish to invest, in order to help it along and better their own prospects at the same time.—Be sure you invest in a good property, and that the officers of the company are able and honorable men. Here, where the mining districts are so easy of access, there is no excuse to do otherwise. The ground can all be looked over by yourselves, and the officers of companies should be well known to you. Should you invest in the stocks of companies of uncertain reputation and undeveloped properties of doubtful value, you lay yourself open to the suspicion that you enter the field for speculative purposes alone, and, should you be unsuccessful, would receive no sympathy.

Third, to owners of mining properties.—We can not do better than quote from a recent report of Prof. W. F. Stewart. "That the present prospect of the mine is highly encouraging, cannot be questioned; but we must not lose sight of the fact that the most flattering surface indications sometimes lead to bitter disappointments. No living man can predict with unerring certainty, the conditions of a mineral lode at unexplored depths. The experienced geologist may arrive at an approximate conclusion as to the possible future conditions of the vein at profound depths, but he dare not assume the role of a prophet and attempt predictions.

Seeing, then, the utter impossibility of foretelling the conditions of an unexplored mine, it behooves the owners of such property, to go slow—to be prudent in the expenditure of cash and labor: to guard against undue excitements and to expend no more money for machinery than is barely necessary to prove, beyond a doubt, that the mine is a permanent, paying investment. This can be done in a simple and inexpensive way, and when it shall be accomplished—and not till then—the Company will be warranted in securing the best and most costly mining appliances."

1880.

(From the Chicago Mining Review.)

When we turn to the future and attempt to forecast what changes may come in the new year, we are bewildered and amazed at the grand promise that mining everywhere presents. Under the most adverse circumstances, in the face of

stupendous obstacles, and from a field hardly more than covered with claims and prospect holes, far from railroads and means of transportation, without machinery or needed facilities, without credit or capital, mining has made a showing that has compelled the attention of the world; and she has taken her place and been crowned a queen in the group of her sister industries of Agriculture, Commerce, Science and Art.

New fields are daily opening up new stores of treasure to the skill of the miner and the magical wand of the capitalist. New methods of treatment will make a most radical change in the results of mining labor. The low grade and practically worthless ores will be worked at a profit, and the product of richer ores will be largely augmented. The attention of the scientist and inventor will be turned in this direction, and some most valuable improvements in the manner of mining and treating ores will be adopted, and radical changes will be wrought in the antiquated, cumbersome and wasteful customs and appliances now in use, which are the distorted children of an old necessity.

It is wonderful to contemplate the vast expanse of our mineral-bearing territory and attempt an estimate of the results, as the needed capital, machinery, transportation and markets slowly creep on, kindling, like a touch of fire, district after district, State after State, into life and activity. Mining is as yet practically in its infancy. It is true that we have had Virginia and California gold mines and Nevada silver mines; but few are aware of the immense extent of our mineral wealth. We have never before had American mines and we have never before heard of American mining as the world shall hear of it with astonishment during the present year.

In addition to the discoveries in the acknowledged mineral territories, the precious ores are being almost daily brought to light in unexpected places. Carbonates now appear in Virginia. Silver mining has already become an important industry in Maine. Platinum is said to have just been discovered in New York. Gold fields in Washington Territory are proving to be valuable. The silver discoveries in the Lake Superior country are attracting attention. Uranium, a valuable metal hitherto found only in Belgium, is reported to have recently been discovered in Colorado, and Canada comes in with new fields of gold and silver.

These are but a few tokens of the coming future, but they are sufficient to show that there is a broad and deep foundation upon which to build one of the grandest industries the world ever beheld, and that already the thought, the energy and the capital of the nation is turning in this direction.

Letter from Prof. Bartlett.

Through the courtesy of Hon. F. M. Laughton, we are permitted to publish an extract from a private letter just received by him from Prof. F. L. Bartlett, under date of Liverpool, January 5th.

"I have been extremely fortunate since my arrival here; I find the English people very courteous and obliging. I went first to see Jas. Lewis & Sons, the great ore brokers.

I have had much correspondence with them, and they were apparently glad to see me and have spared no pains or expense to put me in a way of seeing what I wish.

Through them I have got letters to nearly all the smelting houses, and from one to another I get letters, so that I am in a fair way to see everything.

I have been engaged for a week examining smelting and reducing works at Liverpool and St. Helen's, where they do it to perfection. And now comes the pleasing part of it. They TREAT ORES HERE THAT WE IN OUR IGNORANCE CONSIDER WORTHLESS. I saw lead ores being smelted, that contain only five ounces of silver per ton. Copper ores by the ten thousand ton lots, that only yield 2 per cent. Another fact that I notice, is, that all the silver ores come to the smelters DRESSED; they do not think of sending ores without first dressing, or as we call it concentrating, and the copper ores, unless containing a large amount of sulphur, are sent in the form of 'precipitates.'

Precipitating works are what we have got to have at Blue Hill, and dressing machinery for our silver ores. Our silver ores will average much richer in silver than any obtained here. I shall bring home plans, drawings, etc. of many of the best plants of concentrating and precipitating works, and shall also have a large collection of ores.

To-morrow I am going to Swansea, and after that to Cornwall, Plymouth, Poole, etc., to see the mines and dressing machinery in those places.

As far as smelting is concerned, we cannot compete with the English, because they get coal here that is specially adapted to smelting, that only costs three and six-pence per ton, or about eighty-seven and one-half cents in our money. We cannot get such coal, and even if we could get that particular variety, it would cost us from \$3.50 to \$4.00 per ton.

Three-fourths of the copper smelted in England now comes in the form of 'precipitate' made at the mines. All England's sulphuric acid is made from the burning of these low grade pyrites of copper. We must precipitate our copper and ship it to England, and concentrate our silver ores and ship them.

As far as mining goes, we can beat them. Our mines are better and our machinery more perfect for working them, but when it comes to smelting, we must take off our hats to old England.

On the whole, judging from what I have seen, I am well satisfied that we can beat England and Wales in the production of rich ores."

Yours with regard,

F. L. BARTLETT.

Gold Mining in Massachusetts.

The Plymouth Gold Mining Company was organized yesterday under the state laws of Connecticut, to operate mines in the town of Plymouth, Worcester county, Mass. The directors are Messrs. Seth H. Brown, President; John Wetherbee, Treasurer, both of Boston; and J. W. Walder, of Leominster. Mr. Wetherbee is an old, experienced miner. The capital stock of the company is \$250,000, of the par value of \$25 per share, unassessable, and its principal office is in Boston. The company owns 165 acres of mineral land,

together with hotel and mill privilege and all necessary mining appliances, also an abundant supply of water. A quartz vein which crosses the property of the company is from 2 to 20 feet wide on the surface. The quartz has been assayed with excellent results. The work thus far has been placer mining, and some very fine specimens of ore have been exhibited. The company proposes, as soon as practicable, to do extensive work both in placer and quartz mining. Another mine in the same county is owned by Mr. Ames, of Worcester, who is about to organize a company in New York, if possible, for the purpose of developing the property. —[American Exchange.

Dips, Spurs and Angles

"And it is gone! Gone like a breath;
Gone like a white sail seen at night
A moment and then lost to sight;
Gone like a star you gaze upon,
That glimmers to a bead, a speck,
Then softly melts into the dawn,
And all is still and dark as death.
And then you dance around and swear,
And snatch out handfuls of your hair
Because you bought a 'put,' a 'call,'
And didn't have no sense at all."

—[Joaquin Miller.

A vein of platinum is reported to have been discovered in South Granville, Washington County, N. Y., causing great excitement.

The Boston Herald says indications of gold have been found in a field in Hopkinton, N. H., belonging to Mr. A. Crooks, in the southeastern part of the town. A seam 22 inches thick has been opened up, and it is reported that portions of it have been assayed by Boston chemists with encouraging results.

GENTLEMEN IN WAITING.—Landville boasts of aristocratic waiters. At the Grand Hotel is an ex-member of the New Jersey Legislature, whose letters bear the prefix of "Hon." At the Clarendon the guests are served at table by an ex-Confederate General, a doctor of medicine, a lawyer, and ex-judge from Freeborn county, Minn.

An enthusiast, writing from Blue Hill to the Ellsworth American, says:—

"That ancient landmark, Blue Hill mountain, is in danger of being removed out of its place. The miners are digging at its foundations, and what the result will be, time will determine."

This mining business pays. A poor eastern man went to Nevada and hired out to work in the silver veins. For days and months and years he toiled and labored, and finally a cousin in England died and left him \$1,000,000. He will come east and settle up with his country.

During the past year the Nevada mines have paid \$4,417,800 in dividends and levied \$11,404,400 in assessments. The California mines paid \$1,352,450 in dividends, and levied \$2,692,100 in assessments, an excess of \$1,339,650 in assessments.

Of the mining companies whose shares are dealt in on the San Francisco Stock Exchange, the 56 which pay dividends have cost their stockholders in the aggregate \$30,000,000 for assessments, and have paid them in the aggregate dividends amounting to \$136,000,000. The non-dividend companies number 66, and the assessments levied by them have thus far amounted to over \$27,000,000. Taking both classes together, it appears that for \$57,000,000 put into the mines, \$136,000,000 has been taken out, but this computation makes no account of defunct and bankrupt companies, nor of futile undertakings by non-incorporated individuals.

MONETARY AND COMMERCIAL.

Stocky men are usually short.

The aged broker is long of the market.

The principal bulls upon the market are made by the men who bear all the losses.

The man who lost on his last put feels put out.

Trouble is easy. It can be borrowed at low rates.

Opium is a drug in the market.

The buyer on two months' time has seen the stock sinking and swears buy sixty ever since.

A decline has been noticed in tobacco. He had doubtless sworn off.

All sorts of stocks are generally neglected. Scarf and string ties are in better favor.

The bonds of matrimony are much sought after as a permanent investment.

There is very little doing in bonanzas. Nearly everybody has been done already.

Whisky is spirited, tallow drooping, lead heavy, flour rising, and beer on the hop.

Dealers report the cheaper grades of butter exceedingly strong.

Live hogs are sluggish.

The stock of cotton is reported to be light.

There is some inquiry after governments, especially by Eastern operators.

Acceptances are eagerly sought after in the matrimonial market.

Sight checks are from the shoulder.

The best paper left on the doorstep finds ready takers.

Gas is quoted buoyant.

Water stocks are hardening. The cold weather has had something to do with this.—[Boston Transcript.

GEOLOGICAL REPORT

Upon the property of the Milton Mining and Milling Co., by Professor W. F. Stewart

The valuable ore channel or mineralized quartz vein, upon which are located the Milton, Sullivan, Waukeag and other notable mining works, is situated on the northeast shore of Sullivan river, near the village of West Sullivan, Hancock county, Maine. After passing through the Narrows (locally known as the "Falls,") at a point opposite West Sullivan, the river enters an expansive and picturesque bay, which is at all times navigable up to the "Falls" by steam packets and heavy sailing craft.

As the outcrop of the great quartz vein appears in the shallow margin of the bay or river, at the distance of several rods from the shore line, and is, therefore, rendered invisible most

of the time by the inflowing tides, it is a matter of surprise as to how its discovery was effected. Wherever the croppings are exposed they indicate that the vein, when not deflected by volcanic dykes—has a general strike or bearing toward the northwest and southeast; but there are other facts observable which indicate that this apparent northwesterly trend is not the true strike of the entire lode. In fact, there are points along the lode where the vein and schist-strata evidently strike nearly due east and west. The probable causes of these flexures and changes of trends will be given further on.

The strata enclosing the vein have a northerly and northeasterly dip of from 65 degrees to 77 degrees from the horizon. At the distance of half a mile from the vein, and lying nearly parallel with it, there is an elevated ridge, which is wholly formed of tough syenite and compact hornblende granite. Of course the south slope of this granite ridge is anticlinal to the northerly dip of the quartz vein and of the enclosing schists, and it is, therefore, obvious that the schists will thin out as they rise upon the granite slope; but as the dip of the ore vein is near the vertical, and as it is far to the southwest of the granite mass, the latter cannot interfere with the profound depth of the ore deposit.

As the vein dips toward the shore, the various mining works have been started at points more or less elevated above the water line, for the double purpose of tapping the vein at considerable depth, and to secure ample dumpage room in the bay. The site occupied by the Milton is an excellent one, and possesses every facility for the prosecution of first-class mining and of ore reduction.

Under the watchful and intelligent supervision of the superintendent, Mr. John Shoenbar—a gentleman who has had many years of practical experience in the leading mining districts on the Pacific coast and elsewhere, the Milton works are being perfected in a manner which must be really gratifying to the owners of the property. Every appliance and every structure in and about the premises is being placed so as to combine strength and durability with convenience and elegance.

The principal building at the Milton is named "Shaft-house No. 2." This structure is 101 feet in length, by 32 feet in width, and is two full stories in height. In fact, one portion of the building is two and one-half stories in height. In this house are the principle adjuncts of the mining work, consisting of machine shop, carpenter shop, engine and boiler room, dressing room, etc. In brief, the building contains every appliance now used in a first-class mining establishment. The most substantial object at Shaft No. 2 is the shaft itself, with its elevated mass of heavy timbering and the lofty gallows-frame about it. The shaft is a double compartment, each compartment being four feet by four and one-half feet in the clear.

In order to obtain an elevated position for ore dumpage, the shaft has been cribbed up from the ground surface to the second story of the building. The cribbing is formed of massive timbers, each set being firmly bolted with iron. To add further solidity to the elevated cribbing, the whole rests upon walls of heavy arched mason work, which extends to the firm bed rock twelve feet below the surface, and the summit of the crib is stayed to the building by strong girders of hard pine. The gallows-frame is constructed after the latest model, and, for a new mining camp, is really a colossal affair. Its dimensions are 16 feet by 18 feet span at the base, and its elevation above the elevated cribbing, or top of the shaft, is 35 feet. The sheaves are 6 feet in diameter, and the hoisting cable is a steel wire rope of one inch in diameter. The entire machinery of the works is now driven by a Copeland & Bacon engine of 50 horse power. On the outside of the building stands the largest brick chimney or stack, ever erected in Maine for mining purposes. This stack is a model of elegant brick masonry, and is 30 feet in height above the ground level. The inside diameter of the stack is four feet in the clear, and the structure rests on a pier of solid granite, which itself rests on firm bed rock. The pre-

ent depth of Shaft No. 2 is sixty feet, but when the big hoisting gear is completed the work of sinking will go rapidly forward.

Shaft No. 1 is eighty-five feet deep. It is a double compartment, each chamber being four feet by four and a half feet in the clear, the whole being substantially timbered. The company is now engaged at shaft No. 1 in erecting complete steam hoisting works upon the Comstock plan. In addition to the improvements mentioned at the Milton, there is a fine two-story frame house, twenty feet in width by fifty-two feet, in which there is an assay office, a business office and lodging departments. There is near shaft No. 1 a blacksmith shop, twenty feet by thirty-six feet. An inexhaustible supply of water has been brought to the works through 3250 feet of iron pipe, and as the water-head has 66 feet of elevation, every part of the work can be supplied by the pipes. It is only necessary to add at this point, that the Milton Company holds a perfect mining right to 850 linear feet of the lode, together with ample room for working purposes.

I have purposely given a detailed description of the Milton improvements, at this unusual point in a mining report, simply to convince those who may peruse this veracious history, that the mining men of eastern Maine are wide-awake, and mean business.

The lithological characteristics of the Milton, as exposed at shaft No. 1, may be given as follows: The surface zone of rocks is composed of tough, silicious schists, striated with seams of white quartz, and frequently tinted a greenish hue by talcose or chloritic matter. This top stratum has a vertical depth of about 25 feet. Its trend is toward the northwest, and its average depth is 45 degrees toward the northeast. Immediately underlying this surface zone of schists, and being perfectly conformable with it in trend and dip, there is a stratum of compact lamellar white quartzite which is thirteen feet in vertical thickness. This quartzite mass is also slightly tinted with chlorite, and, I am informed by the superintendent, yields by assay from three dollars to twenty-four dollars in silver per ton.

The next stratum below the quartzite is composed of tough silicious schists, identical with the surface zone in structure, having the same trend toward the northwest, and a dip northeasterly of about fifty-five degrees. At the base of this stratum there is a positive change, not only in the texture of the schists and strike of quartz, but also of the trend and dip of the strata. From this point to the present bottom of the shaft—fifteen feet—the entire mass of schists and quartz veins resembles true lodge matter. The schists are much less obdurate than in the higher strata, and the quartz strike have in many places assumed the form of miniature veins. The south side of the shaft has exposed a selvage of clay an inch or more in thickness, and the schists and quartz are alike heavily charged with minute crystals of iron pyrites. The most notable and by far the most important lithological feature of the rocks at this section of the shaft is the sudden and positive change in the strike and dip of the strata. Instead of the usual trend toward the northwest and southeast, the bearing is here nearly due east and west; and instead of the northeasterly dip of the strata of 45 degrees as noted above, the inclination here approaches the vertical—being from 70 degrees to 75 degrees—below the horizon. This abrupt alteration of trend and dip can only be accounted for by supposing that there has been a violent surface displacement by the ejection of volcanic matter in the vicinity of the vein. This theory of volcanic disturbance is fully warranted by the fact that, at the distance of a few hundred feet directly west of the Milton works, there is a well-defined trap dyke which is eighteen feet in lateral diameter, and which extends to an unknown distance nearly due north and south.

There are, in the same vicinity, three other smaller veins of trap, but doubtless the local disturber was the massive dyke above referred to. As the great dyke lies between the Milton and the Sullivan mines, it is obvious that it has not only bisected the mineralized vein, but that it has probably faulted, flexed and ruptured the lode, as well as the surrounding schists, to a considerable extent.

from the point of upheaval. As noted above, the effects of the disturbing force is palpable in the change and dip of the strata at the bottom of the Milton shaft No. 1; it is also apparent in the lack of conformity of trends in the vein and its croppings, at the various locations along the great ore channel.

It must not for a moment be imagined that such local flexures and displacements in the rocks are in the slightest degree detrimental to the mines. It is now very generally held by geologists, that the ejection of volcanic dykes through mineral-bearing rocks has been a prime factor in the process of filling the fissures and ore channels with their mineralized contents. The prevalent theory in regard to mineral deposition may be briefly stated thus: Heat produced by the ejected lava generates currents of electricity; the electrical action produces magnetism; from the atoms of the various metals held in solution in hot alkaline waters, and in the hydrous pores of the heated rocks, magnetism gathers up and combines the scattered elements, and thus fills the great fractures of the globe with minerals in place.

The solid zone of white quartzite at shaft No. 1 is, at this juncture, an object of profound interest. As the entire stratum—thirteen feet in vertical thickness—is perfectly free from the surrounding schistose matter, and as it yields by assay encouraging percentages of silver, the inference is strong that it is an integral part of the true ore channel. This inference is strengthened by the fact that the lower portion of the shaft is now in a zone of quartzose material greatly resembling ledge matter. As stated on a preceding page, the dip of the strata at the bottom of the shaft is rapidly approaching the vertical, and it is safe to assert that the quartzite stratum rests in the same position at the same level. It is dangerous to advance theories which may involve the ruinous expenditure of money and labor; but at this juncture I am compelled to advance an opinion in relation to the probable conditions of the lode at shaft No. 1, which is obviously to some extent theoretical, and must be taken *cum grano salis*.

As already noted, the outcrop of the discovery lode appears in the edge of the bay at a point a few rods to the south of shaft No. 1. This lode has been fully explored at the neighboring Sullivan location, and at that point has developed into a true fissure lode of astonishing fertility in argentiferous galena. It is certain that shaft No. 1 at the Milton must shortly encounter this original Sullivan lode, and as the mineralization of the vein at the Sullivan is notably uniform in its distribution, it is reasonable to infer that a like mineralization exists in the Milton location. The theoretical point, however, relates entirely to the great quartzite stratum at shaft No. 1. The query is—will the original underlying Sullivan vein, and the overhanging stratum of silver-bearing quartzite ultimately come together, and by their union form a lode of great lateral diameter?

This is a problem which cannot be solved except by actual development, but, judging from the mineralized appearance of the rocks at the bottom of shaft No. 1, and from the sudden change of dip in the strata at that point toward the vertical, I am led to believe that the belt of schists resting between the quartzite and the underlying Sullivan vein, is simply an immense "horse"—or a wide block of wall rock which have tumbled into the original fissure. Innumerable instances of such "horse" formations have been encountered in the great mines of the Pacific coast, and there can be no reasonable reason why they should not occur in the State of Maine.

If the theory of union here advanced shall be realized by further development, then, at the point of contact between the quartzite and quartz vein, we may reasonably expect an increased volume to the ore body, and an augmented value to its out-put. Such are the usual results of vein-contact, whether in the vicinity of a "horse," or otherwise. I desire here to state, in further confirmation of the theory that the quartzite is really a portion of the great ore channel, that at shaft No. 2 it is identical in width and in lithological characteristics with its appearance at shaft No. 1, and, what is still more significant, it bears a heavier percentage of silver than at the last-named locality.

In concluding this delineation of the Milton I desire to state that,

although the ore channel has been slightly deflected from its original trend by the volcanic rocks, it is still, as it were, in its original position, and as it holds a clear right to 850 linear feet of the great ore channel, its area of development and metallurgical operations are practically inexhaustible.

In addition to the extensive and complete machinery, which has been erected for the purpose of developing the mine, the Milton Company will immediately erect a first-class mill for the reduction of ores upon the ground. This mill will contain the very latest appliances now in use in ore amalgamation in Europe and America, and it is safe to predict that, under the present management, the mill will be a complete success.

Personals.

PROF. W. F. STEWART returned to Bangor on Tuesday last. He was in Boston several days.

W. D. LEWIS, Esq., of Boston, and a party of Bangor gentlemen, visited the mines of Sullivan and Blue Hill last week.

S. DANA HAYES, State Assayer of Massachusetts, has been missing since the 20th inst. It is thought by his friends that mental derangement is the cause.

L. FOSTER MORSE, Esq., and MR. THOMAS DALBY, last week visited the mines of Sullivan, Gouldsboro and Cherryfield. They were "snowed in" at the latter place.

MR. DAVIS, of the *Boston Advertiser*, and MR. I. S. EMBRY, of the *Maine Mining Exchange*, have visited the mines of Blue Hill, Sullivan and Gouldsboro during the past few days.

A son of ex-Alderman HAZELTINE, of Portland, while riding from the mine in California, where his father has an interest, to the town of Maderia, near by, was thrown from the team and seriously injured in one of the legs. Word has since been received that he will probably die, and his father has started for California.

LODES, LEADS AND VEINS.

[We earnestly request superintendents of mining operations to send in from time to time such information and actual facts as shall assist in showing up their properties, together with specimens of ores, maps, etc., which will be on exhibition in our office. We wish to make this department as complete as possible and in order to do so, we must necessarily have the co-operation of all who have mining works in charge. It is of the utmost importance, however, that correspondents should deal with actual facts rather than probabilities.]

BLUE HILL.—Two new hoisting engines, compressor, and a number of steam drills arrived on Saturday, and will be put in operation in a few days. In the new strike in the drift, they are taking out magnificent ore.

BANGOR & BLUE HILL FALLS.—The shaft is about 70 feet in depth. Day and night crews are being employed. At a recent meeting of the company it was voted to change their shares from 50,000 of a par value of \$10 to 100,000 of a par value of \$5. It was also voted to change the name of the company from the Bangor & Blue Hill Copper Mining Company to Bangor & Blue Hill Falls Mining Company. The ore now taken from the shaft contains little copper but is well mineralized.

DOUGLASS.—The west drift is in 56 feet, and the east drift 46 feet. The ore is looking well the whole length of the vein, some fine silver ore has been taken out from the bottom of the main shaft, at a depth of 56 feet. The length of the vein opened including shaft is 114 feet. East No. 1 shaft is looking well showing more heavy sulphurets with considerable gray copper. The *Maine Mining Journal* acknowledges the receipt of a very handsome specimen of silver ore recently taken from the shaft.

BISBEE.—The Bisbee Mining Co., have erected a new blacksmith shop, and full day and night gangs have been put on. It is the intention of the company to push the work of sinking the shaft as rapidly as possible.

It is expected that vein No. 2, (the main vein) will be reached inside of sixty days. Vein No. 1, through which the shaft has just passed, can be easily reached, when wanted, by a short cross-cut south.

Mr. Sukeforth, who was injured by the explosion, is gaining and will probably recover.

STOVER HILL.—The shaft is 90 feet in depth. The massive ore body that was struck at the 34 foot level still holds out and it is thought that this is the vein that is seen on the surface to the north of the shaft. The shaft is being rapidly sunk, and it is thought that a depth of 100 feet will be reached by the 10th of February. They will then drift on the vein which they are now on and cross cut and strike the other veins on the property. A limited amount of treasury stock is offered at \$1.25.

TWIN LEAD.—The shaft is being sunk over a foot per day. It has now reached a depth of over forty feet. A party of Bangor gentlemen who recently visited the mine are very enthusiastic over it. Early next month the necessary buildings will be erected. The lumber is already on the spot.

ATLANTIC.—The twin engines are working very satisfactorily. The shaft is being sunk rapidly and the vein will soon be reached. There has been quite a boom in Atlantic stock during the past few days. The price in Boston & New York has gone up to \$2.25 to \$2.50.

DARLING.—There are three veins on the property. The north vein will not be worked before spring. The central vein has been developed by a prospect hole about 10 feet in depth, but the work on this has been delayed till spring. The main shaft is on the south vein. The work of sinking progresses rapidly under the supervision of Supt. Le Prohon. The assays improve with every foot of depth. A blacksmith shop has been erected on the property, shaft down 15 feet, vein 7 feet wide and increasing in richness with every foot of depth.

WHITE STAR.—The White Star Silver and Copper Mining Company was organized at the Maine Mining Exchange in this city last week. The capital is \$500,000, shares of a par value of \$5. The officers are President, Hon. H. C. Martin, Brunswick; Vice President, J. W. Milliken, Bangor; Secretary, F. H. Clergue, Bangor; Treasurer, W. P. Hubbard, Bangor; Directors, H. C. Martin, J. W. Milliken, James Adams, W. H. Darling, Parris G. Merrill and F. H. Clergue. The property of the company is located about half a mile southeast of Stover Hill. The surface indications are flattering. Work will be commenced immediately and the property will be rapidly developed.

BAY VIEW.—A shaft is being sunk on the property.

WELCOME MARY.—The property is located at Blue Hill Neck on the shore of the bay. The surface indications are very good. Copper and galena are found. A company will be organized very soon.

LADY ELGIN.—This property is located on Blue Hill Neck. Some work has been done on the property.

ARCTIC.—A property on Blue Hill mountain is being developed. Good indications of minerals have been found. It is known as the Arctic.

STAR OF THE EAST.—The property to the west of the Darling has been named the "Star of the East." The club shares have been withdrawn from the market and the company will be organized at an early day.

OWL'S HEAD.—Ten thousand shares of stock have recently been sold in Rockland. The mine is situated at the head of Easter Cove near Owl's Head. Work is in progress at the mine, and it is proposed to push the development.

The annual meeting of the Owl's Head Silver Mining Co. was held in Bangor, on Wednesday of this week. It was voted to change the office of the company from Bangor to Rockland. The officers elect are citizens of Rockland. A small amount of treasury stock will be sold during the balance of the month for 25 cents, from the Rockland office, and on and after the first of February 50 cents will be asked.

SWAN'S ISLAND.—A small crew is working the gold mine at Swan's Island this winter with good prospects of success.

LONG ISLAND.—East Blue Hill, Me., Jan. 21, 1880. *To the Editor of the Argus:* The mining interest in this town and vicinity shows some new development every day. The most important of this week is the purchase of Long Island by parties from Portland. The price paid is said to be \$80,000. There is no doubt as to the value of this purchase, as it has long been known that it contained valuable mining privileges. Jackson, when he made his survey in this State, discovered its value, and bonded it for a long term of years, that has just expired. But it appears that he was a long way in advance of his time, for the people of this State had not then realized that Maine was as rich in mineral resources as any State in the

Union. Parties from Boston and New York have been anxiously endeavoring to obtain possession of this Island, but a Portland man who has been here for some days, succeeded in carrying off the prize, and it is said that operations will commence at once. **

GRANT.—Work has been suspended for several days, on account of a strike for higher wages by the workmen. Their demands were not acceded to, and a new crew of ten men have been put on, and operations renewed.

SULLIVAN.—The new building and hoisting works, including an immense gallow's frame, are nearly completed over shaft No. 2, and progress is made in the shaft at the rate of about one foot per day. Work is progressing in the drifts at shaft No. 1, showing fine ore, and also in the bottom of the shaft, taking out magnificent black sulphurets. The vein is widening and the ore growing more compact.

WAUKEAG.—Shaft down 116 feet, with indications of close proximity to the ore body. Good progress is being made—about one foot per day.

MILTON.—The buildings are approaching completion, the new engine for shaft No. 1 has been placed in position, and workmen are sinking rapidly in both shafts.

MILLBROOK.—The new machinery which has been put in place, comprises a 50 horse power engine and a Knowles pump. The building, 23x64 feet, to be used as a shaft house and for offices, is nearly completed, and the water will be removed from the shaft the present week.

MORANCY.—This company, mention of which was made in our last issue, was organized at Bucksport on Saturday Inst, with the following list of officers. President, Guy W. McAllister; Treasurer, A. C. Swazey; Secretary, F. H. Moses; Directors, G. W. McAllister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

GOULDSBORO.—Shaft down 76 feet, vein nearly 8 feet in width, and the ore will average more than 40 ounces silver per ton. The shaft is being substantially timbered with 8 inch timbers and 2 inch planking. New machinery preparatory to drifting, has been ordered, and the drifts will be started immediately upon its arrival.

HOMER.—The shaft has reached a depth of 80 feet, and the vein is of good width and well mineralized.

PETIT MENAN.—This company have recently purchased a steam hoisting engine, to be placed in position at once.

CHERRYFIELD.—The Cherryfield mine is said to be showing a large body of ore, that will compare favorably with any in this State. The shaft is down ninety feet, showing a vein five feet in width with "pay streak" of almost solid minerals, (fine galena with a little zinc) of about two feet in thickness, assaying from forty to one hundred and sixty ounces of silver per ton, and also yielding a large percentage of lead. At one hundred feet this company will drift on the vein and expect to take out an amount of rich mineral that very few of the most successful of our mines can equal.

FRANKLIN.—Eugene J. Swan has recently discovered what promises to be a very rich vein of quartz. An assay made by Prof. Bartlett, of ore taken less than a foot below the surface, gave \$4.12 gold and \$23.37 silver to the ton. Indications promise that this ore will pay from the start. The vein is very distinct with a perfect slate wall and beautiful white and mixed quartz. The vein is fully mineralized and ranges on the surface from one and a half to three feet in width. Mr. Swan has on a full force of men and is sinking a shaft with all possible speed. He is confident, according to the croppings, that a great mineral deposit is not far distant. He has a good blacksmith shop and everything is now in fine running order, and every modern improvement for mining will be promptly put in place.—[Ellsworth American.]

WESTERN UNION.—The Western Union Silver Mining Company was organized in this city on Wednesday evening of this week. It is owned largely by the telegraph fraternity and therefore the name of "Western Union" was selected. The officers elected are President, Chas. I. Collamore, of Bangor; Secretary and Treasurer, Harry G. Bliss, of Bangor; Directors, Chas. I. Collamore, of Bangor, Ruel Smith, of Bangor, Alonzo Packard, of Ellsworth, Colin McKenzie of Ellsworth, and O. S. Hall, of Ellsworth. The capital stock is \$500,000, divided into 100,000 shares of a par value of \$5 each. It was voted to devote 80,000 shares to treasury purposes. The property is located in the town of Hancock, about two miles from the city of Ellsworth. Workmen will commence to sink a shaft on Monday next.

EASTERN STAR.—The Eastern Star Silver Mining Company was organized in this city on Monday afternoon last at the Mining Exchange. The officers elected are, President, Hon. A. Webb; Treasurer, Joseph K. Mayo; Secretary, A. F. Smith; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann and John A. Freese. The capital is \$500,000, divided into 500,000 shares of a par value of \$1. Two fifths of the capital stock is to be used for treasury purposes. The property is located at Ellsworth Falls. The work of development will at once commence.

BARNES' STRIKE.—The property is located in Bucksport near the boundary of Dedham. A company will soon be organized. Workmen have commenced this week sinking a shaft.

Bucksport.—A company has been formed in Bangor, and purchased the old Steel Works at Bucksport, and propose to make necessary alterations and carry on smelting operations. The price paid for the property was \$25,000.

FORT KNOT.—The work at this mine is progressing steadily, with very satisfactory results. The shaft has attained the depth of 60 feet, and the superintendent states that the vein is nine feet wide at the present working, yielding free milling ore, carrying gold and silver, and which according to assays is of a high grade.

HAMPDEN.—The timbering of the shaft is still going on and it is hoped to reach completion this week. The new boiler and twin engines are expected to arrive soon.

LAWRENCE.—A crew of men commenced work on Monday morning.

NOROMBEA.—Two crews of men are being employed. The shaft has been sunk to a depth of about 10 feet, and it is proposed to follow the vein. Some rich galena ore has been taken from the shaft and specimens have been sent away to be assayed. A large blacksmith shop and office has been erected. Mr. Wm. H. Darling is acting superintendent.

HARRINGTON.—The shaft has reached a depth of 30 feet. The ore improves as depth is reached.

MOUNT PLEASANT.—Work is not now in progress but will be resumed at an early day.

CORINNA.—Shaft has reached a depth of 40 feet. It is understood that the vein has been struck. Much mining excitement exists among the people of Corinna. A large number of properties in the town have been bonded. Portland parties have been looking around this week.

ACTON.—Ore of excellent quality is being taken out in large quantities.

PORTLAND ACTON.—Work progresses in the shaft, and a shaft house is in process of erection. The workmen have finished timbering the shaft, and have struck ore.

BOSTON ACTON.—This company have housed the entrance to their tunnel, and propose to push the work vigorously.

DERRING ACTON.—A new company is soon to be organized in Portland, to be known as the **DERRING ACTON SILVER MINING CO.** Dr. E. Clark has been mentioned as President. The property is situated on the Acton lode.

FOREST CITY.—A contract has been made for the construction of a shaft house, ore house, and blacksmith shop, the buildings to be put up immediately. Rich ore is now being taken from the shaft daily.

MINERAL HILL.—A small crew of four or five men are kept at work. An adit is being run from the bottom of the hill across the metals.

Nuggets of News.

Some fine-looking specimens of ore have lately been found at Little Cranberry Isle.

Valuable mineral discoveries are reported from South West Harbor. Several properties have been leased by Ellsworth parties.

New York parties are negotiating for the purchase of some property at Blue Hill with the idea of working the mine as a private corporation.

A company is soon to be organized in Ellsworth to develop what is considered a valuable property on the Butler farm, Egypt, belonging to Dr. L. W. Hodgkins.

The Argus says "Mining lots along the Acton lode are in active demand, and negotiations for the purchase of several of the most valuable will be completed in a few days."

The McIntyre farm, near the landing at Blue Hill, upon which it is claimed were made the first mineral discoveries of the district, has recently been purchased by Boston parties.

The Ellsworth American states that Mr. Charles E. Morrison has leased a part of the old Brimmer homestead, near Brimmer's Bridge, and a company of Ellsworth men has been formed to open a fine quartz vein upon the premises.

The same paper also says that Capt. Mark Mullan and

son of Hancock, and Richard Laffin of Ellsworth have bonded property in Franklin, upon which they show a contact vein about twenty feet in width, containing promising deposits of silver at the surface.

Closing Prices of San Francisco Mining Stocks, FOR THE WEEK ENDING TUESDAY, JAN. 27, 1890.

NAME.	Wed.	Thurs.	Fri.	Sat.	Sund.	Tues.
Albion	11 1/4	10 3/4	10 1/2	4 1/2	4 1/2	4 1/2
Alta	6 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Argenta	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bechtel	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Becher	9 1/2	10 1/2	10 1/2	1 1/2	1 1/2	1 1/2
Belvidere	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Belle Isle	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Best and Balcher	13 1/2	13 1/2	13 1/2	12 1/2	11 1/2	12 1/2
Black Hawk	27-32	29-32	13-16	13-16	13-16	13-16
Bodie	8	8	8 1/2	8 1/2	8 1/2	8 1/2
Boston Con.	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Bulwer	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Caledonia	10	10	10	11	11	11
California	2 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Chollar	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Confidence	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Con. Pacific	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Con. Virginia	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Dudley	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Eureka Con.	17	17	17	16 1/2	16 1/2	16 1/2
Eschschuer	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Golden Terra	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Good & Curry	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
Grand Prize	15-33	15-33	15-33	15-33	15-33	15-33
Goodshaw	15-33	15-33	15-33	15-33	15-33	15-33
Hale & Norcross	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Hillside	13-32	13-32	13-32	13-32	13-32	13-32
Imperial	29-32	29-32	29-32	29-32	29-32	29-32
Independence	29-32	29-32	29-32	29-32	29-32	29-32
Julia Con.	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Justice	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
Jackson	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Lady Washington	29-32	29-32	29-32	29-32	29-32	29-32
Leeds	3-16	3-16	3-16	3-16	3-16	3-16
Leopard	7-16	7-16	7-16	7-16	7-16	7-16
Leviathan	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Martin White	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Mammoth Mine	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Manhattan	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Mexican	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2
McClinton	21-32	21-32	21-32	21-32	21-32	21-32
Mono	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Northern B. H.	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
North Bonanza	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
No. No. 1	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
North B. H. Isle	19	19	19	19	19	19
Ophir	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Overman	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Potosi	20-32	20-32	20-32	20-32	20-32	20-32
Raymond & Ely	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Real del Monte	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Savage	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Sawyer	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Serpentine	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Seg. Balcher	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Sierra Nevada	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Silver Hill	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Silver King	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Syndicate	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
So. Bulwer	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
So. No. 1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Tioga	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Tip Top	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Tuscarora	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Union Con.	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Utah	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Waters	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
Yellow Jacket	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 28, 1890.

NAME	THUR.	FRI.	SAT.	SUND.	TUES.	WED.
Acton	21	20 1/2	22	21	21	21
Ashley	23 50	23 00	23 00	23 00	23 00	23 00
Blue Hill	1 75	1 75	2 00	2 00	2 00	1 55
Blue Hill	9 00	8 87	8 87 1/2	8 62 1/2	8 87 1/2	8 87 1/2
Corinna	1 00	1 00	1 00	1 00	1 00	1 00
Cherryfield	2 00	2 00	2 00	2 00	2 00	2 00
Darling	65	85	1 00	1 00	1 00	1 00
Deer Isle	1 00	1 00	1 00	1 00	1 00	1 00
Douglas	1 00	1 00	1 00	1 00	1 00	1 00
Douglas	6 00	5 75	5 75	5 75	5 75	5 75
Forest City	11 1/2	11	11	11 1/2	12	12 1/2
Fort Knox	50	50	50	50	50	50
Gouldsborough	4 25	4 12 1/2	4 12 1/2	3 50	3 25	3 25
Grant	3 00	3 00	3 00	3 00	3 00	3 00
Hampton	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
Harrington	23	24	24	24	24	24
Home	2 00	2 00	2 00	2 00	2 00	2 00
Milton	8 00	8 00	8 00	8 00	8 00	8 00
Mineral Hill	50	50	50	50	50	50
Owl's Head	15	15	15	15	15	15
Pettit Mountain	1 00	1 00	1 00	1 00	1 00	1 00
Portland Acton	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
Robert Knapp	2 50	2 50	2 50	2 50	2 50	2 50
Sullivan	11 00	11 00	11 00	11 00	11 00	11 00
Twin Lead	2 00	2 00	2 00	2 00	2 00	2 00
Waukeag	7 50	7 50	7 50	7 50	7 50	7 50
Young Hecla	1 00	1 00	1 00	1 00	1 00	1 00

Prices at New York Mining Exchange.

REPORT AND LOWEST FOR EACH DAY OF THE WEEK ENDING TUESDAY
JANUARY 27, 1960.)

MARK	Wed.		Thurs.		Fri.		Sat.		Mon.		Tues.	
	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.
Amer. Flag					19	19	45	40				
Bechtel	7 00	6 85	7 39	7 10	7 15	7 10	2 05	2 05				
Boyle	1 54	1 50	1 79	1 60					1 65	1 50	1 50	1 40
Boyle	9 54	9 40	9 58	9 45	9 58	9 45						
Boyle	9 54	9 40	9 58	9 45	9 58	9 45	83	56	52	85	60	59
Bulwer	71	10	10 1/2	10	10 1/2	10 1/2			10 1/2	10 1/2		
California	4 16	4 05			4 10	4 10	4 05	3 90			4 00	3 90
Can. Pacific			4 00	4 00			4 75	4 75				
Can. Virginia	4 35	4 25					4 00	4 00	4 00	3 90	4 30	4 10
Dakota					20	19	30	18	18	18		
Europa												
Flinder	60	60	61	60	57	57			63	61	61	61
Gold Miner	39	37	39	37	37	37	29	27			29	28
Goodman	39	39	39	37	37	37			39	37	39	37
Grand Prix												
Granville	45	45	45	43	44	43	44	43	44	43	44	43
Great Eastern	45	41	52	52	52	52	53	53	53	52	53	52
Green Mountain	2 35	2 30	2 35	2 30	2 35	2 35	2 30	2 35	2 30	2 35	2 35	2 30
Hudon	4 50	4 50	4 40	4 35	4 50	4 45	4 50	4 45	4 45	4 40	4 45	4 40
Imperial												
Imperial	84	83	87	80								
LA Peta												
Larson			53	51	53	50	49	46	46	45	45	45
Larson	5 55	5 55	5 50	5 44								
Larson			19	18			31	18				
Monroe	2 50	2 45	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50
Navy					45	45						
New York & Col.					2 45	2 45						
No. Standard			1 90	1 90	1 90	1 85	1 90	1 80	1 90	1 90	2 10	2 00
Rock												
Rock	85	87	83	87	98	97	98	97	88	84	88	86
Rock	1 10	1 05					1 30	1 10	1 30	1 10	1 10	1 10
South West	2 35	2 35	2 30	2 35	2 35	2 35	2 30	2 30	2 30	2 35	2 30	2 35
South Nevada												
South												
South	4 50	4 50	4 40	4 40	4 40	4 40						
South	31	31			19	18	18	18	19	19	17	15

Prices at Boston Stock Exchange.

(FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 28, 1980.)

	THURS.	FRI.	SAT.	SUN.	TUES.	WED.
NAMES	Bid Ask	Bid Ask	Bid Ask	Bid Ask	Bid Ask	Bid Ask
Copper Bull Corp.....	8%	9%	8%	6%	7%	6%
Copper & S.W.B..	9%	9%	9%	9%	9%	9%
Comins	9%	9%	44 47%	47%	9%	9%
Copper Fall	7%	7%	6	7%	7%	7
Duncan Silver	4%	4%	4%	4%	4%	4%
Franklin	44 44%	48	40	44% 44%	44%	45
International	80	80	80	80	80	80
Mammoth	4%	4%	4%	4%	4%	4%
National	5%	5%	5%	6	5%	5%
Oxford	5%	5%	5%	5%	5%	5%
Pacific	4%	4%	4%	4%	4%	4%
Ranch	4%	4%	4%	4%	4%	4%
Star	9%	9%	9%	9%	9%	9%
Sullivan	12	12	12	12	12	12

Portland Mining Exchange.

The following are the closing prices at Portland Mining Exchange, Jan. 10th by T. H. Mansfield & Co., 57 Exchange street:

Blue Hill.....	\$8 00 @	8 25
Portland Action.....		12
Forest City Action.....		17
Adams.....	1 25 @	1 75
Acton.....	18 @	20
Bedford.....	5 75 @	90
Dartmouth Silver.....		1 00
Waukegan.....		1 25
Wilton.....		3 50
Wheat Hill.....		1 00
Windsor.....	1 25 @	1 50
Adams & Sons Copper Mining Co. of Gardiner Mountain, N. H.		1 00
Deer Isle.....		10
Clark Silver.....		1 00
Trinity.....		40 1/2
Trinity Club Stock.....		50
Trinity Club Stock.....		50
Enterprise (Club Stock).....		50
Grant.....		3 51
Grain Land.....		3 00
Robert Bennett.....		4 50

Maine Mining Directory.

'INCORPORATED' COMPANIES.

Atlantic Copper Mining Company, Blue Hill, Me.
Blue Hill Copper Mining and Smelting Co., Blue Hill.
Baker & Blue Hill Falls Mining Co., Blue Hill, Me.
Baker Copper Mining and Smelting Co., Blue Hill, Me.
Berkshire Copper Mining Co., Blue Hill, Me.
Blue Hill Copper Mining Co., Blue Hill, Me.
Blue Hill Lead and Copper Mining Co., Blue Hill, Me.

Darling Silver Mining Co., Blue Hill, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Milton Mining and Milling Co., Sullivan, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 Grant Silver Mining Co., Hancock, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Home Silver Mining Co., Gouldsboro, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Pettit Menan Silver Mining Co., Pettit Menan, Me.
 Edgemoggin Silver Mining Co., Sedgwick, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Riverside Mining Co., Camden, Me.
 Acton Silver Mining Co., Acton, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 Forest City Silver Mining Co., Acton, Me.
 Drigo Silver Mining Co., Acton, Me.
 Hampden Silver Mining Co., Hampden, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Maine Silver Mining Co., Dexter, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Mineral Spring Silver Mining Co., Palmyra, Me.
 Orient Silver Mining Co., Newport, Me.
 Lubec Silver Mining Co., Lubec, Me.
 Mineral Hill Mining Co., E. Wakefield, N. H.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Lone Star Silver Mining Co., Woodstock, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 McBurnand Silver Mining Co., Hancock, Me.
 Clark Silver Mining Co., Franklin, Me.
 Noromoga Silver Mining Co., Hampden, Me.
 Bay View Silver Mining Co., Blue Hill, Me.
 Fort Knox Silver Mining Co., Prospect, Me.
 Lawrence Silver Mining Co., Hampden, Me.
 Globe Silver Mining Co., Gouldsboro, Me.
 Little Egg Silver Mining Co., Lamona, Me.
 Egypt Silver Mining Co., Franklin, Me.
 White Star Silver and Copper Mining Co., Blue Hill, Me.
 Eastern Star Silver Mining Company, Ellsworth, Me.
 Western Union Silver Mining Co., Hancock, Me.
 Morancey Silver Mining Co., Sullivan, Me.

PRIVATE COMPANIES

Young Hecla Copper Mining Company, Blue Hill, Me.
 Gray Silver Mining Co., Blue Hill, Me.
 Welcome Mary Copper Mining Co., Blue Hill, Me.
 Whitten Silver Mining Co., Hancock, Me.
 Clapham Silver Mining Co., Sullivan, Me.
 Tugawana Silver Mining Co., Sullivan, Me.
 Pine Tree Silver Mining Co., Sullivan, Me.
 Sowle & West Silver Mining Co., Gouldsboro, Me.
 Hector Silver Mining Co., Gouldsboro Me.
 Britton Silver Mining Co., Cherryfield, Me.
 Trepcott Silver Mining Co., Lubec, Me.
 St. George Silver Mining Co., Lubec, Me.
 Denbo Point Silver Mining Co., Lubec, Me.
 Snow Silver Mining Co., Bucksport, Me.
 Fowler Silver Mining Co., Hampden, Me.
 Wing's Mills Silver Mining Co., Hampden, Me.
 Eastman's Silver Mining Co., Hampden, Me.
 Hillside Silver Mining Co., Hermon, Me.
 Antimony Silver Mining Co., Levant, Me.
 Bassick Silver Mining Co., Lowell, Me.
 Shorey Silver Mining Co., Lowell, Me.
 Eskutasis Gold Mining Co., Lowell, Me.
 Gullford Silver Mining Co., Gullford, Me.
 Porter Silver Mining Co., St. Albans, Me.
 French Silver Mining Co., St. Albans, Me.
 Holland Silver Mining Co., St. Albans, Me.
 Boston Acton Silver Mining Co., Acton, Me.
 Silver Wave Silver Mining Co., Acton, Me.
 Emma Albina Silver Co., No. Penobscot, Me.
 Lady Elgin Silver Mining Co., Blue Hill, Me.
 Blue Hill Central Copper Mining Co., Blue Hill, Me.
 Favorite Copper Mining Co., Blue Hill, Me.
 City of Boston Copper Mining Co., Blue Hill, Me.
 Eastern Belle Gold and Silver Mining Co., Penobscot Me.
 Barnes & Burke, Bucksport, Me.
 Arctic Mining Company, Blue Hill, Me.
 Star of the East Mining Co., Blue Hill, Me.

ACTON SILVER MINING COMPANY. ACTON, Me. Incorporated, Oct. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. F. Prescott, Judge Nathan Cheever, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
Mr. COFFEY, Supt.

ATLANTIC COPPER MINING CO. BLUE HILL, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.
E M LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY. Bath, Grafton County, N. H. Incorporated under the laws of the State of New Hampshire.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr. Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr. John S. Morris, E. L. O Adams, all of Portland.
Office of Company, 22 Exchange St. Portland, Me.
E L O ADAMS, Manager.

BANGOR & BLUE HILL FALES MINING CO. Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodgson, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.
B. O. CUTTER, Supt.

BLUE HILL COPPER MINING & SMELTING CO. Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, E. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—E. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manerag Emery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO. Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon. S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

CHERRYFIELD SILVER MINING COMPANY. Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

CLARK SILVER MINING CO. FRANKLIN, Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth. Secretary, J. T. Crippen, Ellsworth. Directors—J. T. Crippen, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

DEER ISLE SILVER MINING COMPANY. Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, B. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY. Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Sawyer, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY J. GREGORY, Supt.

DARLING SILVER MINING COMPANY. Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Frank P. Wood, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Frank P. Wood, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. F. Bragg, C. H. Huckins, W. P. Hubbard.
E M LE PROHON, Supt.

EAST BLUE HILL GOLD & SILVER MINING CO. East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D. Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO W COLLINS, Supt.

FOREST CITY SILVER MINING COMPANY. Acton, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Reddon, Portland; Assistant Secretary, H. W. Plunkham, Portland; Directors—Hon. James Bailey, John K. Palmer, Chas. M. Rice, Clark H. Baker, James E. Sturgis, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

GARDNER MOUNTAIN COPPER MINING CO. Littleton, N. H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 100,000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.
Supt.

GOULDSBORO SILVER MINING COMPANY. Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 6000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Barrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Barrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAMPDEN SILVER MINING COMPANY. Hampden, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

HARRINGTON SILVER MINING COMPANY. Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
WM H DARLING, Supt.

LAWRENCE SILVER MINING COMPANY. Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Leo Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
Supt.

MILLBROOK SILVER MINING COMPANY. Sullivan, Maine Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY. On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. C. Arnold, of Bangor, Me.; Treasurer, G. E. Harrington, of Salem, Mass.
Capital Stock, \$500,000—100,000, par value \$5 each. Unassessable.
JOHN SHOENBAR, Supt.

MC FARLAND SILVER MINING COMPANY. Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F A McLAUGHLIN, Supt.

MINERAL HILL MINING COMPANY. Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund \$0.000 Shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort, W. G. Frye, Belfast; John A. Wood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY. Hampden, Me. Incorporated, Jan. 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
WM H DARLING, Supt.

PORTLAND ACTON SILVER MINING CO. Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Weston F. Milliken, Treasurer, James L. Racklin, Secretary, Chas. J. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Collins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.
Supt.

QUEEN CITY SILVER MINING COMPANY. Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Light, Bangor. Secretary, W. J. Patton, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyander Palmer, J. W. Thompson, George F. Dillingham.
Supt.

ROBERT EMMETT SILVER MINING CO. Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 40,000 Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

STOVER HILL COPPER MINING COMPANY. Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY. On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund 100,000 Shares.
President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Wm. D. Lewis, Lyman B. Greenleaf, Geo. B. Richards.
B P TILDEN, Supt.

TWIN LEAD COPPER MINING COMPANY. Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John H. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY. On the Sullivan Lode, Sullivan, Me. Office No 4 Sears Building, Boston.
President, E. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, E. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. F. Weston. Capital stock \$500,000—60,000 shares, par value \$10 each. Unassessable.
C. W. KEMPTON, Supt.

Maine Mining Journal.

DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

Vol. I. No. 6.

BANGOR, MAINE, FEBRUARY 6, 1880.

{ \$2 per Year;
6 Cents per Copy.

MAINE MINING EXCHANGE.

For full and reliable information regarding the value of Maine Mines and Maine Mining Stocks, application should be made to ISAIAH S. EMERY, at the MAINE MINING EXCHANGE, No. 33 West Market Square, or at the branch office, No. 28 Congress Street, corner Exchange Place, Boston.

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The Eastern Argus

FOR 1880.

Will contain as usual, the latest news,—local, State and telegraphic.

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Giving Telegraphic, Local, State, Shipping and Market News, Mining Notes, &c., will be furnished at \$3 a year, or \$7 in advance free of postage.

THE TRI-WEEKLY ARGUS,

Published every Tuesday, Thursday and Saturday, will be furnished at \$3.50 per year, or \$3 in advance.

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Is the largest paper in the State, and contains a full summary of the Telegraphic, State, and General News from the DAILY ARGUS. It will be furnished for one year for \$2, or \$1.50 in advance, free of postage.

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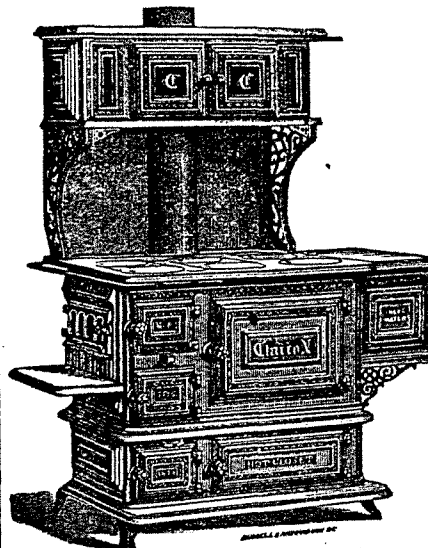
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, FEBRUARY 6, 1880.

THE BENEFITS OF MINING.

There is scarcely in the whole list of business enterprises one which so much effects and is so intimately connected with all other branches of business, as mining.

Not only is a vast amount of building material, machinery, tools, fuel, and supplies of all kinds required to carry on mining operations, and steady employment furnished to hundreds who would otherwise be idle, but the very fact that actual wealth in the shape of precious metals is being taken from the soil, instills into the people of a mining locality a different feeling and more liberal spirit, which enters almost unconsciously into all their business transactions. Such has been the history of all mining regions, and it is this sort of feeling which has been the prime factor in the development of mere mining camps into prosperous cities.

If the establishment of the mining industry in an almost desert region, hundreds of miles from civilization, where the soil is so poor and the climate so villainous that no farm products can be raised, and where the expense of transporting supplies exceeds many times their original cost, can—as in the case of Leadville—build up, in two years, a city of thirty thousand inhabitants, supplied with water, gas, telephone, fire-alarm telegraph, street cars and all the modern appliances which belong to cities in the East, what may not be expected here in Maine, where the cost of living is as low as in any portion of the United States, and all modern conveniences and luxuries are close at hand.

With regard to Maine, there are other important considerations to be taken into account. The principal of these are, its proximity to commercial marts and centres, and its ease of access and the facilities for transportation afforded by the great number of bays, inlets and navigable rivers along its rugged coast. Furthermore, innumerable spots along its shores and hundreds of localities among the hills and by the lakes of the interior, have, for many years, been favorite resorts for thousands of pleasure-seekers from nearly every State in the Union; and now that reports of the mineral discoveries are reaching far and wide, and mining camps springing up in many of the most picturesque but

hitherto inaccessible portions of the State, the tide of summer travel will flow into Maine the coming season as never before, and, already, hotel-keepers are busily engaged in making extensive preparations to receive them. No more beautiful localities or finer scenery, can be found along the whole coast than are presented by the mining districts of Blue Hill and Sullivan, in the vicinity of Mount Desert.

Some of the benefits thus far received from the establishment of mining operations in our midst, may be summed up as follows: First, the hopeful feeling it engenders by the prospects of future wealth through its immediate channels; second, the new life it has already infused into nearly every industry throughout the State; third, the increase in the business of store-keepers, mechanics and farmers, in towns where little or no activity existed before; fourth, the addition—even now considerable—to our population; and lastly, the large and rapidly increasing amount of outside capital invested here, and the settlement, in our midst, of wide-awake, energetic, experienced and practical mining men.

In the face of these results, accomplished almost entirely within the space of one year, taken in connection with the fact that richer and more extensive discoveries of the precious metals are almost daily being brought to light—and that too, at a season of the year when prospecting is well nigh impossible—who can longer doubt that the future prospects of Maine are exceedingly brilliant, and who can continue to make light of the enterprise, and attempt to cast ridicule upon the men nobly striving in the face of serious obstacles, to build up an industry which is destined to place Maine in the foremost rank as regards wealth, influence and power, without bringing upon himself the scorn and contempt of all honest and liberal minded men.

Future Prospects of Gold Mining in Maine.

Quite a stir is manifested throughout the State and elsewhere by the many recent discoveries of native gold, especially in the region on both sides of the boundary line between Maine and Canada, in the vicinity of Lake Megantic, to which allusion was made in a recent issue.

A gentleman of this city, widely known in scientific circles, reports having seen a handful of native gold in dust and nuggets, comprising some lumps as large as common acorns, which were obtained from placer diggings in Ditchfield, between Lake Megantic and the boundary of Maine.

In a late number of *L'Evenement* it is stated that "considerable mining works are in course of erection along the Chaudiere. Others are projected which must change the face of the fertile valley of Beauce, provided the government hasten to modify the legislation relative to mines and facilitate the path of private enterprise. The construction of dams to regulate the courses of the little rivers of the valley has been undertaken, and we are informed that one can count by hundreds the number of men employed in this preparatory work.

The companies organized on a small scale, which have worked the auriferous soil during the last summer, have all drawn from their operations a remunerative profit, and everything goes to prove that next summer these operations will be carried on upon a considerably augmented scale. It

is said that a single company propose to employ not less than three thousand men.

The great falls of the Chaudiere are to be dammed at the cost of \$25,000, as stated by the contract entered into for this undertaking. The bed of the river is very rich and a discovery has been lately made which will permit the utilization in the production of gold of the black sand which has been up to the present time rejected as being of no value, but which nevertheless contains a sufficient quantity of the precious metal to cover the expense of working, so that the extraction, pure and simple, of the ingots, will henceforth constitute a net profit."

A special dispatch to the *Boston Herald*, dated Montreal, January 20, says:—

"Extensive preparations are in progress for gold mining in Beauce county in this province, in the spring. Fourteen incorporated companies, with large capitals, eleven of whom were at work last fall, are ready to begin operations again upon a more active and enlarged scale. Mr. Golding, an English capitalist, largely interested in phosphate mines, has invested heavily, and has disposed of an interest, for \$200,000, to a New York company, of which ex-Judge Ditenhoeffer is the representative."

The best authorities agree that the gold which is found in the stream beds on each side of the boundary, has, by the action of the elements, been dislodged from the quartz veins cropping out on the range of mountains forming the dividing line, and carried down by the streams which have their source there until a lodgment is effected, the smaller particles being carried farthest away from the starting point. Nor are these auriferous deposits by any means confined to the Canadian side of the line. The sands of streams on the eastern slopes of these mountains are equally rich in the precious metal.

No search has yet been made for the quartz veins from whence these nuggets and grains of gold have come. The hunters and woodsmen who have brought gold from that region have contented themselves with panning it out of the alluvium of the streams, and having no other than rude appliances with which to work, and possessed of no facilities for extracting it from the quartz veins, have not sought for them; moreover, there being no State or Government laws granting claims to finders (all the land belonging already to individuals), it has suited hunters and others far better to pocket what they could "pan out," than to search for the original lodes, locked in the rocks, which they, without means and a proper outfit or the right to operate, could get nothing from.

Now, however, the attention of the land owners has been aroused, and they are beginning to realize that property there has, in all probability, besides its value for the magnificent timber upon it, an additional value for the gold and other minerals that scientific men assert and indications all go to prove, positively exist in that locality.

Explorations in search of the "mother veins," from whence the stray gold of these streams has come, will be instituted in the spring as soon as the snow is gone, and they will undoubtedly be found.

We are always pleased when anything which appears in

papers; but when a newspaper with the standing of the *Portland Argus*, incorporates into an article of its own, an entire editorial of ours, without any change of wording whatever, and gives no credit, it is rather more than a journal only six weeks old can stand, without having its ire aroused.

Rocks of Maine Compared with Those of the Far West.

Editor Maine Mining Journal:

I am frequently asked this question—"Are the geological surroundings of the mineralized quartz veins in Maine similar to those surrounding like deposits in the far West?"

This persistent query may be categorically answered by the blunt monosyllable "no." That many of the quartz veins in this region, as well as the minerals which they contain, greatly resemble the gold and silver bearing lodes in the western States and Territories, is certainly true; but the environing rocks of the Maine ledges, as well as the general topographical features of this region are strikingly dissimilar to those of the metal yielding zones of the far West.

That expansive continental belt which lies between the Rocky Mountains and the Sierra Nevada has, in past ages, been the seat of the most tremendous volcanic energy which ever existed upon this planet. This vast area of land, embracing the territories of Utah, Idaho, Washington, Arizona and the State of Nevada, has been torn, distorted and corrugated throughout by myriads of eruptive masses, so that the topographical contour of the country is literally a wrinkled ocean of dead lava. In other words, the wide intercontinental depression known as the Great American Basin, is filled by an almost infinite number of parallel volcanic ridges with occasional ranges of dolomitic mountains.

The great zones of metal bearing quartz veins in that region rest in the midst of this broad field of volcanic desolation, and it is, therefore, not surprising that the ore channels of the Great Basin are usually much flexed, faulted and distorted. So tremendous indeed was the eruptive energy that even the famous Comstock lode is so crushed and distorted that many careful explorers have been led to the conclusion that the great mine is not a true fissure vein at all, but simply an irregular jumble of ore deposits. *Universal disturbance* prevails through the vein systems of the far West, and this constitutes the chief distinguishing difference between the ore deposits of that region and those of Maine. The mineralized quartz veins in this State, usually rest in Archæan beds—the tilted strata of the Laurentian and Huronian—and it is admitted by geologists that the earth was comparatively exempt from volcanic disturbances during the deposition of these profound Archæan beds. That the entire mass of Archæan rocks has been flexed and tilted from its original horizontal position is everywhere manifest; but this was doubtless occasioned by the long secular changes in the earth's surface, for, as a rule, the lines of primitive stratification are unbroken and may be readily traced for long distances. As Professor Dana states it: "The beds were laid down as sediments over immense continental areas; and then followed an epoch of uplifts, when the horizontal layers were pressed into folds and displaced, on the grand scale explained. Many such periods of uplift may have previously

were not the prevailing condition of Laurentian times, any more than they were of later ages. This is proved by the conformability of the various beds to one another in this system of foldings. An age of comparative quiet, allowing of vast accumulations of horizontal strata, even to the thickness of 30,000 feet, must have preceded the epoch of disturbance."

In geological phrase, the Archean beds, together with the mineral deposits within them, are many millions of years older than the mineral-bearing rocks of either the American Basin or of the Pacific coast. The tremendous volcanic epochs in which the western side of the continent was so widely distorted, have certainly existed since the beginning of the Jurassic, and were therefore comparatively modern to the Archean time. In fact the inter-continental epoch of disturbance has been plausibly referred to the Miocene Tertiary period, and if this be true, the event was, comparatively, quite recent.

From the facts just presented the inference is obvious that the quartz vein systems of Maine, (which rest in the Laurentian and Huronian strata) are likely to be less disturbed and more reliable than the torn and crushed metalliferous zones of the far West. Actual exploration of the rock exposures in this region proves this inference to be correct. I have never before visited a mining country where unbroken quartz veins could be so readily traced to prodigious distances. The cleavage laminations of the Archean beds rarely deviate from the accepted law of continental trends. The enclosed quartz veins usually follow the cleavage fracture in the strata, and it is therefore an easy matter here to define the bearing and extent of a true fissure quartz vein.

Very Respectfully,

W. F. STEWART.

Gold in York County.

Editor Maine Mining Journal:

It is surprising to look over the past four years and see the rapid strides that our new industry has been making.

Four years ago a mine in the State of Maine producing gold or silver was almost an impossibility in the minds of the people. Little did our farmers think they were tilling land that was rich in precious metals, or that these same metals would make a complete change in the future of our State, and build up a permanent and legitimate business that would place our State upon a foundation equal with the best mineral producing regions of the world.

Little did the men who rushed away to the gold fields of California dream that our own State of Maine was laden with the very minerals for which they faced the dangers of wild countries. Upon the discovery of the silver mines of Newburyport a cry was sounded throughout the New England States that startled many of our people, and thousands were searching for metalliferous veins, many of them having no knowledge whatever of the character or quality of a vein, and the consequence was that but few true veins were found until within the past two years; but a wave was started in motion that was moved with such a determination that it was impossible to stop it. Notwithstanding the ridicule and smiles of derision that were heaped upon the heads of those believing in the existence of precious metals here, mining has

continued to increase and these very people to-day are beginning to see that the things they deemed impossible are verified facts.

One of the earliest discoveries that was made in the State was made by myself here in Waterboro, in the county of York, of a gold mine, a true fissure vein, assaying from the surface cropping \$7.53, and three feet down, \$18.50, with free gold seen with the naked eye. Nothing has ever been done toward the development of this vein; a little work was done upon it four years ago to open the vein and several tons of good ore were taken out, but for the want of capital it was abandoned for future development. A company was formed upon it by a sharper from Chicago with the intention of making money for his own pocket, but not succeeding he took his departure. The time of this company has expired and the mine is open to capital, and with the right management cannot fail to be one of the first mines of our State.

It is situated one and one-half miles from the South Waterboro depot on the line of Portland & Rochester railroad, and sixteen miles northeast of the great Acton Silver mines, and seventeen miles east of Mineral Hill Mining Company of Wakefield, N. H. It lies on the eastern side of the long and continued ridges dividing the towns of Acton, Shapleigh, and Waterboro. I have found gold for many miles along this ridge, and have found indications of placer mines. In my opinion this section of the State will eventually prove to be rich in gold and silver. I will mention that the vein of which I have spoken carries about \$4 silver to the ton, associated with auriferous iron pyrites. The vein runs north and south 10 degrees to the east, dip 35 degrees, associated rocks are mica schists.

Believing this to be a property that should not lie idle, I feel anxious that parties with capital should turn their attention this way. This is the first time for four years that this property has been placed before the public, but I have a desire that the coming season shall put the mine in good working order.

J. E. TAYLOR, Mineralogist.

So. Waterboro, York Co., Me.

COPPER STOCKS.

How They Have Advanced and the Prospects for Further Improvement.

The advance in copper stocks at Boston is one of a series of upward movements at intervals of a few years ever since the shares of the Lake Superior mining companies were placed on the Boston market thirty or forty years ago, and is not extraordinary when compared with some of those of past years.

Large amounts of Boston capital have been invested in these stocks, but during the period of business depression they were in disfavor, and people who dealt in them were likely to incur suspicion as to their financial soundness. Of late they have attracted the attention not only of speculators, but also of sober investors, who have seen the great leader of the group, Calumet and Hecla, making enormous profits, and a number of the smaller companies declaring dividends that afford a large income on the purchase money.

The advance in the shares is based on the rise in ingot copper, which at times last year was down to 15 3-8 cents a

pound, but closed last week strong at twenty-five in Boston, and New York. New York dealers say it will yet go to thirty, and this would not be surprising to those who have watched the market for several years. In 1872 it sold up to forty-five and never in the past decade has it been below fifteen and three-eighths. The London market is well sustained too, and there were large transactions last week at seventy-four pounds per ton and upward, which is an advance of five pounds in a few weeks. If lake copper should go to thirty in this country, its advance would be no more remarkable than that of iron. It is reported that a New York firm have gained control of the supply for future delivery, and if so they will of course make as much out of it as possible.

The course of the market depends not only on the demand for the metal in the arts, but on the supply turned out by the Lake Superior mines, the length of the South American war, the out-put from the new mines in Maine and the tariff. As for the two latter factors, they may probably be counted out for the present. Mining in Maine is yet an experiment, and there is not likely to be a reduction in the duty of five cents per pound, though a number of yellow-metal manufacturers of Boston have had a hearing on the subject at Washington the past week. The supply from the lake region will of course be increased, as there are several mines that could not be profitably worked with the metal at sixteen cents, which can do well at twenty cents and upward.

When it is remembered that the price of Calumet and Hecla stock has gone from 170 to 300 (counting in rights on the new shares), Quincy from ten to forty, Ridge from three-fourths to nine and one-half, and so on, in the past year—the greatest of the advance having come within three or four months—it is hazardous making predictions as to the course of quotations, but there are good authorities who say the end of the movement is not yet.—[Springfield (Mass.) Republican.

Personals.

HENRY B. DARLING, secretary of the Douglass, has returned from a brief trip to Boston.

R. F. STRAINE has retired from the firm of Cooke & Straine, publishers of the *Economist*.

No clue has yet been found to the whereabouts of S. DANA HAYES, the missing chemist, of Boston.

EDITOR VAUGHAN, of the *Ellsworth American*, has been in Bangor a few days during the past week.

T. H. MANSFIELD, of the Portland Mining Exchange, has been spending several days among the Blue Hill mines.

The MINING JOURNAL has received calls during the week from C. C. BURRILL and H. H. EMERSON, of Ellsworth; G. W. COLLINS, of East Blue Hill; and Dr. FELLOWS, of Prospect.

We received a pleasant call on Monday, from Mr. R. C. CLAPP, of Bath. Mr. Clapp was on his way home from a visit to the mining districts of Blue Hill, Hancock and Sullivan, and reports himself greatly surprised and pleased with

C. W. KEMPTON, Mining Engineer, has withdrawn from the management of the Waukeag mine, and will, for the ensuing season, attend to general professional work. Mr. Kempton will be succeeded at the Waukeag by Mr. B. P. Tilden, superintendent of the Sullivan mine.

Mining Machinery.

We take pleasure in calling the attention of mining men to the card of Messrs. Fraser & Chalmers, to be found in our advertising columns.

This long established firm manufacture every conceivable variety of mining machinery and implements. Their work has long had an enviable reputation for superiority of construction, elegance and durability, and the house is in every particular thoroughly honorable and reliable. They have furnished machinery for many of the most noted mines in the western states and territories and also in the Lake Superior region, and wherever placed has given the most complete satisfaction.

They also manufacture the FRUE VANNER, of which we shall take occasion to speak in a future issue.

We insert the following from the New York *Mining Record*:

Fraser & Chalmers, 139 Fulton street, Chicago, Illinois, United States of America, manufacture all kinds of mining machinery, steam engines and boilers, gold and silver stamping, dressing and smelting machinery, as well as all kinds of hoisting and pumping works for mines, brakes for incline planes, endless wire rope-ways, and are also agents for and dealers in Blake crushers, Liffel water-wheels, American Turbine water-wheels, Blake blowers, and all kinds of mill and mine supplies. They have just completed for the Homestake Mining Company, Black Hills, hoisting and pumping works for 2,000 feet depth of mine. The engines are made for working from two shafts, using flat wire rope four and a half inches wide. The pumping engine is twenty-six by sixty, working Cornish pumps. They have just finished for this same company, for Highland mines, a mill of 120 stamps, which is the largest gold mill ever built. It will be operated by an engine twenty-six by sixty, supplied with steam from four boilers, fifty-four inches in diameter by sixteen feet long. The Stand-by Company, of New York, have also recently obtained from them a sixty-stamp gold mill, the machinery to be run by water-power. Parties in need of machinery will do well to correspond with this house. Their illustrated catalogue will be sent on application and also illustrated book, descriptive of the Frue Ore Concentrator or Vanning machine which they manufacture exclusively for the United States, except for Nevada, California, Oregon and Owyhee county, Idaho. The Vanner is now displacing all concentrators heretofore used on the Pacific Coast.

Stock Certificates, etc.

Mining companies about to issue stock, will do well to read the advertisement on our last page, of the well known firm of F. C. Philbrick & Co., 101 Devonshire street, Boston.

LODES, LEADS AND VEINS.

[We earnestly request superintendents of mining operations to send in from time to time such information and actual facts as shall assist in showing up their properties, together with specimens of ores, maps, etc., which will be on exhibition in our office. We wish to make this department as complete as possible and in order to do so, we must necessarily have the co-operation of all who have mining works in charge. It is of the utmost importance, however, that correspondents should deal with actual facts rather than probabilities.]

NOROMBEGA.—The vein is well defined and thoroughly mineralized. Good ore is being taken out daily. The vein widens as depth is attained. A specimen of ore brought in yesterday is pronounced by those who have seen it to be the handsomest of anything yet found in Maine. It consists of beautiful green chlorides, charged with argentiferous galena.

LAWRENCE.—A blacksmith shop and powder house have been erected. A crew of seven men are actively employed in sinking the shaft on the main vein, and good ore is being taken out. Capt. Albion Gray of Blue Hill is foreman.

HAMPDEN.—The timbering of the shaft is about completed. The new boiler of 18 horse power arrived this week. The work of sinking the shaft will be pushed immediately after the completion of the timbering.

HARRINGTON.—Work is progressing rapidly in the shaft, and a tramway 100 feet in length is being built. A piece of quartz found on the farm upon which the mine is located, gives a remarkable showing of free gold.

CORINNA.—The shaft has reached a depth of 45 feet. Numerous feeders have been cut through, and the main vein will probably be reached at a distance of 70 feet from the surface. The directors, at a recent meeting, voted to sell a limited amount of treasury stock at \$1 per share, and it is now meeting with a rapid sale in Boston.

FORT KNOX.—A night crew is to be put on immediately. The shaft is down 66 feet, the vein is nine feet in width and is looking well.

ATLANTIC.—The new machinery works very satisfactorily. Good progress is being made in the shaft.

TWIN LEAD.—A letter from the superintendent, Mr. Duff, says: "The mine is looking remarkably well. To-day, in straightening the shaft, we developed the largest, as well as the richest body of copper and silver ore ever found in Blue Hill." The shaft is now down more than fifty feet, and the quartz taken out is very handsome.

DARLING.—The ore continually improves with increase of depth.

YOUNG HECLE.—The Young Hecla Copper Mining Co. will be organized in this city to-day. The property lies directly west of the Twin Lead, and embraces one-half of the celebrated Swazey property.

BANGOR AND BLUE HILL FALLS.—The shaft is down sixty-four feet and is looking finely. Steam machinery will be put in at once.

CITY OF BOSTON.—Col. Wm. H. Darling, the owner of this valuable property is placing it upon the market at \$1.85 per share. He agrees to put \$9000 cash and 25,000 shares of stock into the treasury, without expense to the company. The property is situated between the Blue Hill and Atlantic, and is directly in the centre of the great mineral zone. Ground was broken on Wednesday of last week. The shaft is being put down on the northern portion of the property, and it is expected to strike the Douglass vein at a depth of 50 feet. The Blue Hill vein also crosses this property at a distance of 300 feet to the south, and can easily be reached by drifting. A topographical survey of the property, showing the heights and depressions has been made by a competent engineer, and four large and accurate maps have been drafted.

STOVER HILL.—The shaft is expected to reach a depth of 100 feet by Saturday night. The massive body of ore continues in the shaft and as soon as it fills the shaft drifting will commence. Steam machinery will be procured early in the spring.

WHITE STAR.—A crew of men have been at work some days. The lumber has arrived and blacksmith shop and powder house are being erected. The work of sinking a shaft will commence on Monday next.

SILVER REEF.—The Silver Reef Mining Company was recently organized. The capital is \$500,000 divided into 100,000 shares of a par value of \$5.00. The property is located at Blue

Hill Neck, and has generally been known as the Welcome Mary. The company derives its name from a reef or ledge which extends up out of the water and has rich silver ore cropping out on its surface. Wm. P. Hubbard, of Bangor, is President of the company, C. F. Bragg, of Bangor, is Secretary, and J. S. Ricker, of Bangor, is Treasurer. Forty thousand shares of stock have been placed in the treasury. Operations will be commenced on the property in about ten days.

EAST BLUE HILL.—There are two veins upon this property, about sixty rods apart. Sixteen men are employed, and two shafts are in progress, one of which has reached a depth of ten feet, where already the ore assays \$55 per ton in silver. Buildings consisting of office, blacksmith-shop, shaft-house, and powder-house, are being erected, and a wharf for shipping purposes, has just been completed.

NORTH BLUE HILL.—Dr. Yeaton is developing a property at North Blue Hill. Gold and silver are found on the surface.

CURTIS.—A company is about to be formed under the name of the Curtis Silver Mining Co., to operate upon this property, which is located at Surry Neck, a peninsula of land some nine or ten miles long on the eastern side of Blue Hill Bay. But little has yet been done upon the property, which includes one mile of vein stretching across the neck of land, from shore to shore. The croppings are very rich in sulphurets of copper and silver.

EASTERN BELLE.—The property is located in the town of Penobscot on the stage road near the Blue Hill town line. A crew of men have been at work on the property from three to four weeks. The shaft is down about seven feet.

EASTERN STAR.—Work is progressing at the Eastern Star, near Ellsworth Falls. Mr. Freese, a director, has this week exhibited in Bangor specimens of quartz from the mine which were thoroughly impregnated with free gold.

McFARLAND.—The editor of the *Ellsworth American* has recently visited this mine, and from his report we glean the following facts. The shaft is 8 feet by 12, partially timbered, and has reached a depth of 18 feet. The vein is 15 inches in width and rapidly expanding. The ore (of which about 3 tons have been removed) is thoroughly mineralized with argentiferous galena, which, according to careful assays, will pay from the surface. It is the opinion of Supt. McLaughlin, a practical miner, that the mine will soon be producing free milling ore.

MILTON.—Supt. Shoenbar, writes under date of January 31: "The vein shows large, strong and very promising, and with the proposed machinery I am confident that the Milton will prove a paying property in a short time."

SULLIVAN FALLS.—A company known as the Sullivan Falls Silver Mining Co., has recently been formed to commence work upon the property immediately adjoining the Milton on the east, and embracing 680 linear feet of the Sullivan lode. It is understood that a number of officers of the Milton company, are largely interested.

DEER ISLE.—Mess. Ames—President. Carney—Treasurer, Gould—Secretary, and Sampson—Director, of the company, visited the mine last week, and were much gratified at its favorable appearance. While there, ore from the bottom of the shaft was thrown out which exceeded in richness any heretofore exposed. The vein is constantly concentrating, and is now fully four feet in width of massive ore. A night gang is now at work in addition to the day force, and a new blacksmith shop is being put up. Drifting on the vein will be commenced as soon as a little more depth is reached.

OWL'S HEAD.—At the annual meeting of the Owl's Head Silver Mining Co., held in Bangor recently, C. W. S. Cobb, J. P. Ingraham, T. P. Pearce and G. M. Hicks, all of Rockland, were chosen directors.

LONE STAR.—A special meeting of the stockholders of the Lone Star Gold and Silver Mining Co., was held Friday evening last, at the office of Judge Morrill, in Auburn. Hon. B. D. Metcalf of Damariscotta, presided, and the directors of the company were instructed to proceed at once to sink a shaft and open the mine belonging to the company, at Woodstock. There have been twelve assays of ore from this mine, made by different mineral assayers, which gave an average yield of \$464.38 per ton, and the stockholders are jubilant.—[Lewiston Journal.]

PORTLAND ACTON.—Shaft has been sunk to a depth of about 40 feet. Good ore is being taken out.

BOSTON ACTON.—The Boston Acton Silver Mining Company will soon be organized. It is understood that Mr. John S. Morris, of Portland, a gentleman who has been largely instrumental in opening up the famous Acton region, will be President of the Company. It will be organized with a capital of \$500,-

000, divided into 100,000 shares of a par value of \$5 each. The work of sinking shafts on the property has been in progress several weeks.

FOREST CITY.—Shaft is about 30 feet in depth. Ore of excellent quality is being taken out daily. An average specimen assayed by Prof. S. K. Hitchings gave the following result: gold, \$11.07; silver, \$48.63; lead, \$55.50; a total value of \$95.20 to the ton.

AMMONOOSUC.—The property is being thoroughly developed. A shaft is being sunk and progress is being made under favorable circumstances. The shaft is now from 15 to 20 feet in depth.

OSHKOSH.—The Oshkosh Consolidated Mining Company of Lawson, Colorado, was organized at the Maine Mining Exchange in Bangor on Monday last. The property of the company is located at Lawson in the State of Colorado. The company is organized under the laws of the State of Maine with a capital of \$500,000, divided into 250,000 shares of a par value of \$2. The officers elect are President, E. C. Nichols of Bangor; Vice President, Henry A. Piper of Boston; Secretary, Samuel P. Johnson of Bangor; Treasurer, C. T. Plympton of Boston; Directors, E. C. Nichols of Bangor, James Adams of Bangor, John T. Rines of Bangor, Henry A. Piper of Boston and Geo. W. May of Boston.

Nuggets of News.

Blue Hill is to be supplied with street lamps. Another enterprise of Col. Darling's.

The Sowle and West Silver Mining Co., of Gouldsboro, will be immediately organized at Ellsworth.

Report comes from Burlington of the discovery of minerals on the farm of T. W. Porter in that town.

Mr. John S. Morris is arranging for the building of a large boarding house in the vicinity of the Acton mines.

Discoveries of gold and silver are reported on the farm of Benjamin Friend, in Etna, and assays show the mineral to be very rich in gold.

A contract has been made for a large concentrating and reduction mill for the use of the mines on the Acton lode, to be erected at once.

The Collins Granite Co., of East Blue Hill, have orders ahead amounting to \$200,000. They will probably employ upwards of 400 men the coming season.

Long Island, in Blue Hill Bay, which was mentioned last week as having been sold to Portland parties, is seven miles long and four miles across at its widest part.

It is understood that the Acton Silver Mining Co., are making endeavors to secure the services of an experienced miner from Nevada, as superintendent of their works.

The Sherman Steel works, of Bucksport, have not been sold, as was reported in our last issue. The property has been bonded, but the sale has not as yet been consummated.

The Mineral Hill Mining Co. have disposed of a portion of their property, embracing 750 feet linear feet of the lode, and a new company is about to be organized at Winterport to develop it.

A large boarding house with accommodations for 60 or 70 boarders, will be erected very soon by the Douglass company for the use of their workmen. The lumber is now on the way from St. John.

M. H. Kiff, Esq., has bonded the property of Samuel M.

Young, on the west side of Crockett's river, Vinalhaven. Specimens of ore have been sent away to be assayed, and the results are anxiously looked for.

The Orland correspondent of the Ellsworth American says: "Our stores are abounding with divers and sundry rock specimens, supposed to contain wealth in abundance. You will hear from us in the spring."

It is exceedingly probable that during the coming season the Bucksport R. R. will be extended to Ellsworth, Blue Hill and Bar Harbor. A petition for a charter will be presented to the Maine legislature at its present session.

Col. Wm. H. Darling is to erect at Blue Hill, an elegant and spacious hotel with a capacity of seventy-five rooms. It will be similar in style to the Waukeag House at Sullivan, one of the most popular houses on the coast.

The Colonel, is also to build at once, two large blocks in Blue Hill village, to contain stores, offices, etc., in one of which the new National Bank is to be located.

Geese saved Rome, and it has remained for a goose to act as a prospector in Waldo county and prove that native gold may be picked up here from the ground. A gentleman in this city lately found in the crop of a country-raised goose, a spoonful of crystals and quite a showing of gold in minute flakes. The mineral was tested by a jeweller and found to be unmistakably gold. For all this we would not advise a wholesale slaughter of the geese for the sake of the golden eggs. Such a course would be like killing the prodigal son and welcoming the fatted calf.—[Belfast Age.]

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES ASKED FOR EACH DAY OF THE WEEK ENDING TUESDAY, FEB. 3, 1880.

NAME.	Wed.	Thur.	Fri.	Sat.	Mon.	Tues.
Acton.....	22	22	22	21	21	21
Ashley.....	\$2 00	\$2 00	\$2 00	\$2 00	\$2 00	\$2 00
Ammonoosuc.....	1 00	1 00	1 00	1 00	1 00	1 00
Atlantic.....	1 87½	1 87½	1 87½	1 87½	1 87½	1 95
Blue Hill.....	6 37½	8 00	7 75	8 00	8 12½	8 12½
Corinna.....	1 00	1 00	1 00	1 00	1 00	1 00
Cherryfield.....	2 00	2 00	2 00	2 00	2 00	2 00
Darling.....	1 00	1 00	1 00	1 00	1 00	1 00
Deer Isle.....	1 00	1 00	1 00	1 00	1 00	1 00
Dirigo.....	1 00	1 00	1 00	1 00	1 00	1 00
Douglass.....	5 75	5 75	5 75	5 75	5 75	5 50
Forest City.....	13	13	13	13	13½	12
Fort Knox.....	50	50	50	50	50	50
Gouldsborough.....	3 50	3 50	3 50	4 00	4 00	4 00
Grant.....	3 00	3 00	3 00	3 00	3 00	3 00
Hampden.....	12½	12½	12½	12½	12½	12½
Harrington.....	25	25	25	25	25	25
Home.....	2 50	2 50	2 50	2 50	2 50	2 50
Milton.....	3 00	3 00	3 00	3 00	3 00	3 00
Mineral Hill.....	75	75	75	75	75	75
Owl's Head.....	18	18	18	18	20	85
Petit Menan.....	1 00	1 00	1 00	1 00	1 00	1 00
Portland Acton.....	13	13	13	13	13	13½
Robert Emmett.....	2 50	2 50	2 50	2 50	2 50	2 50
Sullivan.....	12 00	12 00	11 00	12 00	12 00	12 00
Twin Lead.....	2 00	2 00	2 00	2 00	2 00	2 00
Waukeag.....	7 00	7 00	7 00	7 50	7 50	7 50
Young Hecla.....	1 00	1 00	1 00	1 00	1 00	1 00

Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, FEB. 4, 1880.

NAME.	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.
Blue Hill Copper.....	8½ 8½	8 8	7½ 7½	7½ 8	7½ 8	8 8½
Calumet & Hecla.....	258 240	240 240	245 245	244 244	244 244	244 244
Central.....	47 45	47 45	47 47	47 47	46½ 46½	48 48
Copper Fall.....	5 6	5½ 6	5½ 6	10½ 10½	11 11½	11½ 12
Duncan Silver.....	4½ 4½	4½ 5	4½ 4½	4 5	4 5	4 4½
Franklin.....	45½ 46	42½ 42½	43 43½	43 43	43 44	45 45
International.....	60 60	60 60	60 60	60 60	60 60	60 60
Mesnard.....	3½ 4	3½ 4	3½ 4	3½ 4	3½ 4	3½ 4
National.....	5½ 6	5½ 5½	5½ 5½	5½ 6	5½ 6	5½ 5½
Orford.....	9½ 9½	9½ 9½	9½ 9½	9½ 9½	9½ 9½	9½ 9½
Osceola.....	40 40½	40½ 40½	40½ 40½	40½ 40½	40½ 40½	40½ 40½
Pewabic.....	60 60	60 60	60 60	60 60	60 60	60 60
Quincy.....	44½ 45	43½ 43½	43½ 43½	43 43	43 43	43 43
Ridge.....	8½ 9	8½ 9	8½ 8½	8½ 8½	8½ 8½	8½ 8½
Silver Islet.....	23 24	21 23	21½ 21½	21 21	21 21	22 22
Star.....	2 1½	2 1½	2 1½	2 2	2 2	2 2½
Sullivan.....	11½ 12	12 12	12 11	12 12	12 12	12 12

Closing Prices of San Francisco Mining Stocks,

FOR THE WEEK ENDING TUESDAY, FEB. 3, 1880.

NAME.	Wed.	Thurs.	Fri.	Sat.	Mon.	Tues.
Alpha	10	10	10	10	9 7/8	9 7/8
Alta	4 1/2	4 1/2	4 1/2	4 1/2	4	4
Argenta	1 1/2	1 1/2	1	1 1/2	1	22-32
Bechtel	1 1/2	1 1/2	2 1/2	1	2 1/2	1
Becher	12 1/2	12 1/2	11 1/2	11	10 1/2	10 1/2
Bevidere	1 1/2	1	1 1/2	1 1/2	1 1/2	1 1/2
Belle Isle	1 1/2	1	1 1/2	1	1	1
Best and Belcher	12 1/2	12 1/2	12	11 1/2	11	10 1/2
Black Hawk	12 1/2	12 1/2	13-16	12 1/2	12 1/2	13-16
Bodie	8 1/2	8 1/2	8 1/2	8 1/2	10 1/2	12
Boston Con.	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Buhion	6 1/2	5 1/2	5 1/2	5 1/2	4 1/2	4 1/2
Bulwer	11	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
Caledonia	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Caledonia B. H.	1	2 1/2	1	1	3	5 1/2
California	4	4	4	3 1/2	2 1/2	5 1/2
Chollar	3 1/2	3 1/2	3 1/2	3	7 1/2	7 1/2
Confidence	1	1	1	1	1	1
Con. Pacific	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Con. Virginia	4 1/2	4 1/2	4	4	4	4
Dudley	21-32	9-16	19-32	1	21-32	11-16
Eureka Con.	16	16	16	16 1/2	16 1/2	16
Exchequer	3 1/2	3 1/2	3 1/2	3	3	2 1/2
Golden Terra	1	1	1	10 1/2	1	1
Gould & Curry	6	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Grand Prize	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Goodshaw	11-32	11-32	11-32	11-32	13-32	13-32
Hale & Norcross	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Hillside	1	1	1	1	1	1
Imperial	13-16	13-16	13-16	13-16	11-16	21-31
Independence	29-32	29-32	29-32	29-32	15-16	29-32
Julia Con.	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	1 1/2
Justice	2 1/2	1 1/2	2 1/2	2 1/2	2 1/2	2
Jackson	1	1	1	1	1	1
Lady Washington	13-16	13-16	13-16	13-16	13-16	13-16
Leeds	13-32	13-32	13-32	13-32	13-32	13-32
Leopard	3-16	3-16	3-16	3-16	3-16	3-16
Leviathan	1	1	1	5-16	1	1
Martin White	1	1	1	1	13-16	13-16
Mammoth Mine	3 1/2	3	2 1/2	2 1/2	2 1/2	2 1/2
Manhattan	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Mexican	15 1/2	18 1/2	18 1/2	17 1/2	16 1/2	16 1/2
McClinton	21-32	21-32	21-32	19-32	21-32	21-32
Mono	7 1/2	7 1/2	8	8 1/2	9 1/2	9
Northern B. H.	10 1/2	11	11	11	11 1/2	12
North Bonanza	21-32	21-32	21-32	21-32	11-16	11-16
Noonday	4 1/2	4	4 1/2	4 1/2	4 1/2	4
North Belle Isle	11-32	11-32	11-32	10 1/2	5-16	5-16
Ophir	15 1/2	18 1/2	18 1/2	18	17 1/2	18
Overman	8 1/2	8 1/2	8 1/2	7 1/2	6 1/2	7
Potosi	5 1/2	5	5	5	4 1/2	4 1/2
Raymond & Ely	29-32	29-32	27-32	18-16	1	1
Real del Monte	1 1/2	1 1/2	1	1	1 1/2	1 1/2
Savage	1 1/2	1 1/2	7	6 1/2	6 1/2	6 1/2
Sierra Nevada	24	22 1/2	22 1/2	22	20 1/2	19 1/2
Silver Hill	29-32	29-32	11-16	19-32	1 1/2	1 1/2
Silver King	6	7 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Syndicate	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
So. Bulwer	1 1/2	1 1/2	1 1/2	1 1/2	2 1/2	1 1/2
So. Noonday	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Tloga	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Tip Top	3 1/2	4	4 1/2	4 1/2	4 1/2	4 1/2
Tuscarora	1	1	1	5-16	1	1
Union Con.	46	43 1/2	43 1/2	43	40 1/2	41
Wailes	3	3 1/2	3 1/2	3 1/2	3	3
Yellow Jacket	11 1/2	11	10 1/2	10 1/2	10 1/2	10 1/2

Closing Prices at New York Mining Exchange,

FOR EACH DAY OF THE WEEK ENDING TUESDAY, FEBRUARY 3, 1880.

NAME.	Wed.	Thurs.	Fri.	Sat.	Mon.	Tues.
Amer. Flag	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.
Bechtel	1 15 1 90	1 15 1 90	1 15 1 90	1 15 1 90	1 15 1 90	1 15 1 90
Belle Isle	1 07 1 10	1 10 1 10	1 10 1 20	1 05 1 10	1 10 1 20	2 15 2 30
Bodie	8 5 7 1/2	8 5 7 1/2	8 5 7 1/2	8 5 7 1/2	8 5 7 1/2	11 00 11 00
Buckeye	56 55	56 57	56 57	54 55	55 56	54 55
Bulwer	4 10 4 20	4 05 4 10	4 00 4 05	4 00 4 05	4 00 4 05	4 00 4 10
California	4 00 5 00	4 15 4 20	4 20 4 25	4 20 4 20	4 00 4 15	4 00 4 10
Con. Pacific	4 35 4 40	4 15 4 20	4 20 4 25	4 20 4 20	4 00 4 15	4 00 4 10
Con. Virginia	17 18	18 19	18 19	17 18	17 18	17 18
Dahlonega	16 1/2 16 1/2	16 1/2 16 1/2	16 1/2 16 1/2	16 1/2 16 1/2	16 1/2 16 1/2	16 1/2 16 1/2
Eureka	60 65	65 65	64 66	62 64	63 63	63 63
Findley	29 30	29 30	29 30	29 30	29 30	29 30
Gold Placer	34 35	34 35	34 35	34 35	34 35	34 35
Goodshaw	1 25 1 50	1 25 1 50	1 25 1 50	1 25 1 50	1 25 1 50	1 25 1 50
Grand Prize	40 43	42 43	41 42	40 42	30 40	38 40
Granville	59 60	58 59	55 57	55 56	58 59	55 58
Great Eastern	2 40 2 45	2 40 2 45	2 40 2 45	2 40 2 45	2 40 2 45	2 40 2 45
Green Mountain	4 35 4 35	4 35 4 45	4 35 4 40	4 40 4 45	4 30 4 35	4 30 4 35
Hukill	87	90 95	95 1 00	95 1 00	95 1 00	95 1 00
Imperial	46 47	46 48	46 47	46 47	50	49 51
Independence	46 47	46 48	46 47	46 47	50	49 51
La Plata	2 10	2 10 2 20	2 10 2 20	2 10 2 20	2 15 2 20	2 15 2 20
Lacrosse	36	36	36	36	36	36
Leadville	2 10	2 10 2 20	2 10 2 20	2 10 2 20	2 15 2 20	2 15 2 20
Lucerne	36	36	36	36	36	36
Moose	2 10	2 10 2 20	2 10 2 20	2 10 2 20	2 15 2 20	2 15 2 20
Navajo	36	36	36	36	36	36
New York & Col.	2 00 2 05	2 10	2 15	2 05 2 20	2 05 2 15	2 05
No. Standard	2 00 2 05	2 10	2 15	2 05 2 20	2 05 2 15	2 05
Plumas	36	36	36	36	36	36
Rappahannock	1 10 1 15	1 10 1 15	1 20 1 25	1 20 1 25	1 15 1 25	1 15 1 25
Shamrock	3 25 3 30	3 20 3 25	3 10 3 20	3 10 3 20	3 05 3 15	2 75 2 90
South Hts.	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95
Sierra Nevada	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95
Tloga	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95	2 90 2 95

Portland Mining Exchange.

The following are the closing prices at Portland Mining Exchange, Feb. 3, by T. H. Mansfield & Co., 67 Exchange street:

Blue Hill	\$8 00 @ 9 25
Portland Acton	12
Forest City Acton	12
Atlantic	1 75 @ 2 00
Acton	18 @ 20
Douglass	5 50 @ 6 00
Darling Silver	1 00
Waukeag	6 75 @ 7 00
Milton	2 50 @ 3 00
Mineral Hill	1 00
Edgemoggin	1 25 @ 1 50
Ammonoosuc Copper Mining Co. of Gardner Mountain, N. H.	1 00
Deer Isle	1 00
Clark Silver	10
Young Hecla	1 00
Favorite (Club Stock)	50
Preble (Club Stock)	33 1/2
Enterprise (Club Stock)	50
Grant	2 75 @ 3 00
Twin Lead	2 00
Robert Emmett	2 25 @ 2 50
City of Boston (Club Stock)	1 55

Maine Mining Directory.

INCORPORATED COMPANIES.

Atlantic Copper Mining Company, Blue Hill, Me.
 Blue Hill Copper Mining and Smelting Co., Blue Hill.
 Bangor & Blue Hill Falls Mining Co., Blue Hill, Me.
 Bisbee Copper Mining and Smelting Co., Blue Hill, Me.
 Douglass Copper Mining Co., Blue Hill, Me.
 Stover Hill Copper Mining Co., Blue Hill, Me.
 Twin Lead Copper Mining Co., Blue Hill, Me.
 Darling Silver Mining Co., Blue Hill, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Milton Mining and Milling Co., Sullivan, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 Grant Silver Mining Co., Hancock, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Home Silver Mining Co., Gouldsboro, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Petit Menan Silver Mining Co., Petit Menan, Me.
 Edgemoggin Silver Mining Co., Sedgwick, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Riverside Mining Co., Camden, Me.
 Acton Silver Mining Co., Acton, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 Forest City Silver Mining Co., Acton, Me.
 Dirigo Silver Mining Co., Acton, Me.
 Hampden Silver Mining Co., Hampden, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Maine Silver Mining Co., Dexter, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Mineral Spring Silver Mining Co., Palmyra, Me.
 Orient Silver Mining Co., Newport, Me.
 Lubec Silver Mining Co., Lubec, Me.
 Mineral Hill Mining Co., E. Wakefield, N. H.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Lone Star Silver Mining Co., Woodstock, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 McFarland Silver Mining Co., Hancock, Me.
 Clark Silver Mining Co., Franklin, Me.
 Noromoga Silver Mining Co., Hampden, Me.
 Bay View Silver Mining Co., Blue Hill, Me.
 Fort Knox Silver Mining Co., Prospect, Me.
 Lawrence Silver Mining Co., Hampden, Me.
 Globe Silver Mining Co., Gouldsboro, Me.
 Little Sue Silver Mining Co., Lamoine, Me.
 Egypt Silver Mining Co., Franklin, Me.
 White Star Silver and Copper Mining Co., Blue Hill, Me.
 Eastern Star Silver Mining Company, Ellsworth, Me.
 Western Union Silver Mining Co., Hancock, Me.
 Morancey Silver Mining Co., Sullivan, Me.
 Silver Reef Mining Co., Blue Hill, Me.
 Sullivan Falls Mining Co., Sullivan, Me.

The table of Private Companies, as well as some other matter of interest, is unavoidably crowded out of this number. With the next issue the size of the JOURNAL will be increased to six-

ACTON SILVER MINING COMPANY, ACTON, Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors: Hon. Geo. P. Prescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
Mr. COFFEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Biagg, Bangor. Directors—F. M. Loughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humpfrey, Boston.
E. M. LE PROHON, Supt.

AMMONOSUC COPPER MINING COMPANY, Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec, 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St. Portland Me.
E. L. O. ADAMS, Manager.

BANGOR & BLUE HILL FALLS MINING CO., Blue Hill, Me. Incorporated 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 55,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Doie, Manering Emery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon. S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

CHERRYFIELD SILVER MINING COMPANY, Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

CLARK SILVER MINING CO., FRANKLIN, Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth. Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

DEER ISLE SILVER MINING COMPANY, Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY, Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Frank P. Wood, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Frank P. Wood, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. F. Bragg, C. H. Huckins, W. P. Hubbard.
E. M. LE PROHON, Supt.

EAST BLUE HILL GOLD & SILVER MINING CO. East Blue Hill, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

FOREST CITY SILVER MINING COMPANY, Acton, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Redlon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Baker, James E. Sturgis, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

GARDNER MOUNTAIN COPPER MINING CO, Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 100,000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.
Supt.

GOULDSBORO SILVER MINING COMPANY, Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAMPDEN SILVER MINING COMPANY, Hampden, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon. F. M. Loughton, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Loughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

HARRINGTON SILVER MINING COMPANY, Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterus, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY, Hampden, Me. Incorporated, Jan, 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
Supt.

MILLBROOK SILVER MINING COMPANY, Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY, On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable.
JOHN SHOENBAR, Supt.

McFARLAND SILVER MINING COMPANY, Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
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Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY, Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 35,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO. Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Weston F. Milliken; Treasurer, James L. Rackliff, Secretary, Chas. D. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 24 Exchange St., Portland, Me.
Supt.

QUEEN CITY SILVER MINING COMPANY, Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-sander Palmer, J. W. Thompson, George F. Dillingham.
Supt.

ROBERT EMMETT SILVER MINING CO., Egypt Bay, Hancock, Me. In Corp, July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 40,000 Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Farber, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

STOVER HILL COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Loughton, Bangor; Melvin Peble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY, on the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, 100,000 Shares.
President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Richards.
B. P. TILDEN, Supt.

TWIN LEAD COPPER MINING COMPANY, Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 100,000 Shares.
President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

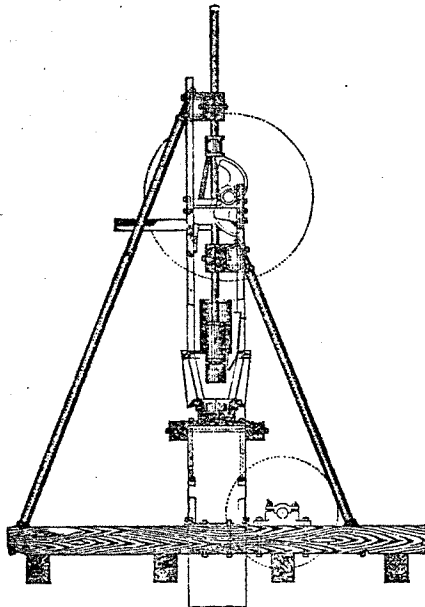
WAUKEAG SILVER MINING COMPANY, On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
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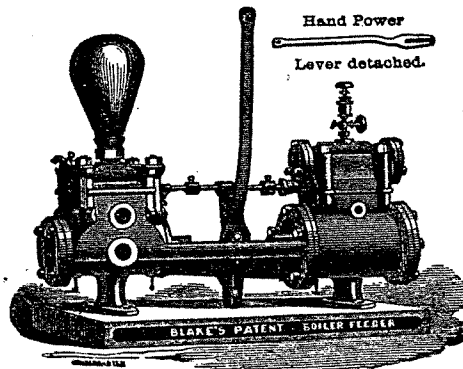
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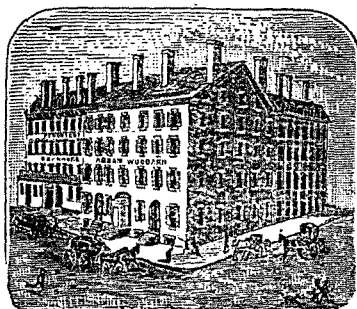
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[Entered as second-class mail matter.]

Vol. I. No. 7.

BANGOR, MAINE, FEBRUARY 13, 1880.

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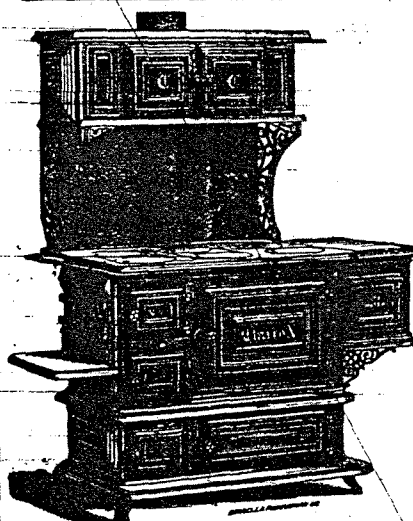
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BANGOR, FRIDAY, FEBRUARY 13, 1880.

With this issue the MINING JOURNAL becomes a sixteen-page paper, and a large number of sample copies are sent to parties who are not subscribers. We hope they may receive careful perusal and assist, not only in increasing our subscription list, but in awakening a more general interest in Mining, and in calling attention to the important change destined to be wrought through this industry, in the business prospects of Maine.

THE FUTURE.

Mining has within a brief space of time assumed a prominent rank among the industries of our State, and promises to become ere long the chief business of Maine people.

The rapidity with which the interest in the mines has increased is indeed surprising. A short time since and the few patient and persevering men who in the face of great obstacles and laboring under numerous disadvantages, were striving to develop mines in our midst were subjects for general ridicule. Now, a very large class sincerely believe in the existence of great mineral wealth in the Pine Tree State, and many of the early pioneers have already received substantial rewards for their labors.

The future is indeed promising. Maine has for some years been passing through a trying period. Her industries have languished, many of her people have been out of employment, and hundreds have left for the far West, where they have tried as best they could to earn a livelihood. With the present year the State enters upon a new era of prosperity; mining has given a new life to every industry, and thousands are finding employment in the various mines opened. Few of the sons of Maine are now leaving the State, as has been characteristic of past years; already a considerable number have retraced their steps and it is anticipated that during the present season many more will return and aid in developing the mineral resources.

No prophetic vision is required to convince one that Maine will during the coming summer experience an ex-

citement far surpassing anything ever before witnessed within her borders. In Boston, New York, and even the leading cities of the great West, much interest is being taken in the recent mining developments here, and money is flowing in freely. With the opening of spring and the disappearance of snow from our rocky hills, capitalists and prospectors will visit the State in great numbers. Even now in the dead of winter, with several feet of snow on the ground, the thermometer indicating a zero temperature and the winds raging fiercely, scores and even hundreds are wandering over the fields and hills, bonding and purchasing properties.

One important result which must follow the mining developments will be the building up of eastern Maine. This portion of the State will figure much more conspicuously than it ever has in the past. Large accessions will be made to the population. At Blue Hill and Sullivan evidences of the new condition of things are already seen. Large and thriving communities will be built up. Numerous steamers will be required to transport freight and passengers between the mining towns along the eastern coast. A railroad will doubtless be extended through that region in a short time, and a very charming and picturesque country will then be opened to the traveller. From Blue Hill to Petit Menan the scenery is not surpassed on the American continent.

The mines we most positively believe, are worthy the attention that is being given them. They can bear inspection and the officers are pleased to have visitors and experts view their properties. They are very easy of access, and parties who wish to invest can readily make examinations for themselves. The work which has been done is by no means of a superficial nature. Large and substantial buildings have been erected and costly machinery obtained. Many of the mining superintendents have had extensive experience in the mines of the great West, and arrangements have just been perfected for securing the services of three of the best superintendents on the famous Comstock lode to come to Maine and take charge of three different mining properties.

Mining in Maine is no longer purely speculative. As a rule the mines are in the hands of men who have full confidence in the wealth stored away beneath the surface, and who are determined to devote their energy and what is more their capital to bringing it forth.

In the excitement attendant upon a business which promises such speedy and remunerative returns, speculators will of course take an important part. The evils of a wild era of speculation cannot be too strongly pictured, but if people will exercise the same good sense which they do in other kinds of business, the danger may in part be averted. The investor cannot be too cautious. It is as a legitimate business only that mining can exercise its power for good, and become a lasting benefit to our people.

On another page will be found a map showing the location of some of the principal mining properties in the Blue Hill district, for which we are indebted to the courtesy of the officers of the Darling Silver Mining Co. We shall from time to time publish others descriptive of the various mineral belts of the State.

"OUR EASTERN MINES."

And Their Generally Poor Showing.

The above is a part of the caption of an article in the Boston Herald of last Saturday, in which the writer, who feels called upon to warn the public against investments in this direction, proceeds to display his entire ignorance of his subject in the most elaborate manner.

To show the remarkable clearness of his style of writing, we quote as follows, the italics being our own: "There are two general ways to operate mines *by which money can be made out of them by owners or projectors*. One is to organize, do enough work to base a report upon, and then issue stock and sell it. The other is, by working the mine *in a legitimate way, and making it a profitable business*.

The first method, if skillfully prosecuted, is generally sure to yield a good return, while in the second there is some risk that the mine may not be rich enough to give any profit over the working expenses, even if it yield enough to pay for the working. Between the two systems, the choice seems to be in favor of the first, and it perhaps is not to be wondered at that the people are apt to take the course which promises the surest and quickest reward. *But to make money in this way is to make it without giving any valuable equivalent to its original owners.*" There seems to be a slight difficulty in harmonizing these two statements, but that being of no consequence, we pass on to where he commences to speak of the Maine mines.

After mentioning the Newburyport mines and their sudden collapse, and the various mineral discoveries in New Hampshire from which nothing has ever been realized, he proceeds:—"Shortly after the Newburyport discoveries had set people moderately wild in regard to the possibility of New England becoming a new El Dorado, and the 'old miners' had 'found color' in New Hampshire, we began to hear from Maine that some of the mines which had been opened years ago and abandoned—for some reason or other—were being again explored, and showed very encouraging indications of rich ore bodies. The first notable event in the line of mineral discovery in that State was the discovery of the Blue Hill copper mine. Its existence and the extent and character of its ores seemed to be almost phenomenal. It at once gave plausibility and character to Maine as a depository of minerals of a nature that would pay for working. This mine, it may here be said, has been well handled from the beginning, and is now showing a steady yield of ore which is commanding a market price that appears to be satisfactory to the company, to whom too much praise cannot be given, for they are nobly redeeming all promises made and lifting the business of mining in the East out of a condition of incipency which it has generally borne from the beginning." Notwithstanding there are numerous other mining companies in the immediate vicinity, with equally as good prospects, several of them having the same identical veins as the Blue Hill extending across their property, and the majority of which it is safe to assert are under as good management, he has not a single good word to say for any other mining property than the one mentioned above. Evidently there is here a cat under the meal somewhere.

The facts with regard to the Blue Hill mines are these:

The first discoveries of copper in this district were made upon the Douglass farm in 1876 by Col. Wm. H. Darling. Mr. B. O. Cutler purchased sixty-six acres of land adjoining, and commenced work upon it, and early in 1877 the company was incorporated. A portion of the farm comprising what are now the properties of the Douglass and Atlantic companies, was sold shortly after, other lands in the vicinity were bought up, and other companies were formed in quick succession. The remainder of the Douglass farm has remained in possession of the original owner until a few weeks since, when it was purchased by Col. Darling, and is now known as the City of Boston property.

It is almost needless to say that the wealth of the Blue Hill mines has long ceased to be speculative. The management is in first-class hands, the work is being done in a thorough and substantial manner, the ores far surpass in richness and the extent of the deposits the most sanguine expectations, and the shareholders are more than satisfied with their investments, and are awaiting—not impatiently—the dividends which in most cases will not be long in forthcoming. The Blue Hill Co. of course possess an advantage in having commenced work nearly a year earlier than any of the others, but there is no visible reason why they should not eventually prove to be as good paying properties.

After eulogizing the Blue Hill mine the Herald man pays his respects to the Sullivan. "Following the Blue Hill discovery came the discovery of the Sullivan lode, from which some very promising ores have been shown, but, though the original company has been in existence for over two years, and has been at work on the property all that time, we have not heard of any regular shipments of ore therefrom, or that any return has yet been realized for all the money expended on it. It is said there are many hundreds of tons of ore on the surface, and the question has been quite frequently asked: 'Why is it not sent to be reduced and something realized from it, instead of having it lay there, of no good to any one, and its real value only a matter of conjecture?' The stock of this mine has been on the market for many months, and has been quoted quite actively at the stock board, even above par, probably on the strength of its estimated prospective value; and it may have a value, but, if it has, the interested public would like to have some more tangible evidence of it than mere geological reports and the glowing imaginings of enthusiastic speculators."

If the Herald really wishes to furnish correct information to its readers, why in the name of common sense, does it not take pains to ascertain the facts with regard to these matters instead of throwing out insinuations like the above. The Sullivan Company have been engaged for two years in sinking a prospecting shaft, at as small an expense as possible, in order to ascertain beyond the shadow of a doubt, whether or not the prospects would warrant the erection of costly buildings and machinery. This shaft has followed the dip of the ledge and consequently is not suitable for working purposes at any great depth. The results, however, have far exceeded expectations, and have been sufficient to warrant the starting of a new shaft and the erection of new and substantial buildings and hoisting apparatus.

If the writer in the Herald knew any thing about mines; he would be aware that mining companies do not as a rule ship every car load of ore as fast as it is taken out. They usually continue to take out and pile up, until enough has been accumulated to call for a mill for its reduction. This is precisely what the Sullivan has done. The ore as it lies upon the dump is accessible to any one, and specimens can be carried away from any portion of it and its value determined by assay, by any one who is sufficiently interested to do so. With the completion of the stamp mill, which is to be built at once, the last vestige of scepticism will be swept away, and then the croakings of all such people as the wise (?) man of the Herald will no longer be worthy of notice.

Let us follow him a little farther. After having made the statements that the Blue Hill mine has given "plausibility and character to Maine as a depository of minerals of a nature that would pay for working," and that the company "are lifting the business of mining in the East out of a condition of ineptness," he says shortly after—"but there is one thing that the public should become fully aware of, and that is the almost distinctively speculative character of many of these Maine mines; that they are evidently worked to make money by the sale of stock rather than by the development of their lodes, if they have any."

When a man makes a statement like this, he should substantiate his assertions with some sort of tangible proof. Has the writer in question lost any money in Maine mines? Does he know of any one who has? Does he know of a case where the property of a mining company in Maine has been misrepresented by any of its officers? Can he mention an instance of fictitious stock sales being reported as genuine, or of stocks having "been kept afloat and advanced in price by a regular system of nursing," as is intimated? If so, it is most surely his duty to make it known, and no one would thank him more heartily than ourselves; but as long as he merely contents himself with abusing the mining companies of Maine without any specifications and making statements so manifestly unfair and untrue as those in the article quoted from, without any regard for the facts of the case, we are forced to the conclusion that he is utterly and totally ignorant of what he pretends to be talking about, or that, for reasons best known to himself, he is making willful misrepresentations.

Among the large number of mining companies now in existence in this State, it is far too much to expect, that there are none of little or no value, or that they will all prove paying investments. Very likely, too, some of them have been put forth merely for purposes of speculation. But in the light of the present surprisingly promising showings from every quarter, and of the well-known honorable character (almost without exception) of the officers of the numerous companies, who shall, at this early day, dare to say which they are or who are the men engaged? Time alone can determine this, and whenever information shall come to us, which may lead us to think that affairs are managed in an incompetent or a dishonorable manner, or that certain properties are destitute of permanent value, the MINING JOURNAL will ever be found ready to disclose for the benefits

of its readers the "true inwardness" of the case, wherever the consequences may fall.

One thing is certain. An overwhelmingly large majority of the business men of Eastern Maine are at the present time connected in some way with mining enterprises. A very large number of Boston capitalists are also interested, and the districts of Blue Hill and Sullivan, to say nothing about other districts in the State, will witness the coming season an era of business prosperity and activity never before seen in this part of the country. This is inevitable. It cannot possibly be prevented; and it is very essential that the men engaged in mining operations as well as those whose business is largely dependent upon this industry, should have a daily newspaper in the city of Boston which shall faithfully represent them and their interests. It is perhaps needless to say that the Herald does not promise to meet the wants of the people in this respect.

Dips, Spurs and Angles.

Broad is the road that leads to debt.
And thousands walk together there,
Prompt payment finds a narrow rut,
With here and there a passengier.

There are nearly 700 hands employed in the copper mines at Ely, Vt.

The Calumet and Hecla has up to date, paid dividends amounting to \$15,850,000 upon a capital stock of \$2,000,000.

Reported by the Gold Hill, Nevada, News—"A young lady in Chicago, when asked by the officiating minister, 'will you love, honor and obey the man as your husband, and be to him a true wife?' said plainly, 'yes if he does what he promised me financially.'"

All our readers will doubtless be interested to learn that a recent number of a Berlin chemical journal contains a paper describing "the action of chloroform upon alkaline solutions of metoxybenzoic acids, ortho-aldehydro-metoxibenzoic acid, the formation of oxyterephthalic acid from ortho-aldehydro-metoxibenzoic acid, and also para-aldehydro-metoxi-benzoyl-diamidobenzol tri-iodide, diethy-anhydro-benzoi-diamido-benzol iodide, diethyl-anhydro-benzoyl-diamido-benzoyl hydroxide, diethyl-anhydro-benzoyl-diamido-benzol chloride, and the corresponding platino-chloride, sulphate, and nitrate, and also of diamyl-anhydro-benzoyl-diamido-benzol and its derivatives paralled to those of the diethyl series."—[Boston Journal of Chemistry.

The prejudices that have so long existed against gold and silver mining in New England are gradually giving way before the results of scientific experiments, geological investigation and actual development. The demand for an immediate bullion yield—as senseless as though the farmer had been asked for the harvest product before the seed had been sown, or the manufacturer for dividends before the machinery of his works had been set in motion, or the railroad corporation for disbursements to stockholders before the rolling stock had been placed on the track—is, nevertheless, being met with an answer that cannot fail to satisfy the sceptics even though it may not silence the factious. The Advertiser has not attempted to argue the point whether or not paying mines exist or will be developed in New England. Nor has it sought to influence any one in purchasing or declining to purchase New England mining securities. It has simply presented official matter and well-authenticated reports, leaving its readers free to form their own conclusions and act their own pleasure. That the results of the past four years and the last six months particularly have far exceeded the most sanguine expectations of the friends of

this industry, is an acknowledged fact. New discoveries are being made daily, and the work of exploration and development is being vigorously prosecuted. The mining industry in New England is no longer confined to a few energetic and speculative individuals, but many of the leading men of Maine, New Hampshire and Vermont are investing their money and devoting a portion of their time and talents to mining enterprises.—[Boston Advertiser.]

Calumet and Hecla Mines.

(Correspondence Mining Record.)

Houghton, Mich., Sept. 6, 1879.

Sir:—The most wonderful mine in the world for its immense production of copper and for the unprecedented regularity in paying such remarkable dividends on the face value of its stock is the Calumet & Hecla Copper Mining Company of Lake Superior. It is situated at the upper terminus of the Mineral Range Railroad, in the upper Michigan Peninsula, or 12 miles from Portage Lake, and is about the middle of the famous copper bearing range, Lake Superior being 8 miles on the west side and Lake Linden, (a branch of the main lake) 7 miles to the east.

It works on a belt of conglomerate—a variety of rock that was formerly considered as non-copper bearing, geologists having formerly scouted the idea of copper ever occurring in it, while the early explorers would as soon have thought of looking in the sandstone as touching the conglomerate. In fact when copper was finally discovered in this kind of rock and at this identical mine, even then, the only advocate in the scientific ranks who had faith in the conglomerate and was willing to follow it up and develop the mine was old Prof. Agassiz, and to him and E. J. Hurlburt is the credit due for the present development of this great mine, which now employs 2,000 men and is paying \$1,000,000 a year in dividends, on a capital of \$2,000,000 in 80,000 shares of \$25 each.

The first occurrence of copper in the conglomerate rock was discovered by accident, so legend has it, for the story runs that at a solitary log hut in the deep back woods where "benzine" could be had to cool the inner man, a Frenchman happened to stop over night; now the landlord had some pigs which by running loose in the woods had become very wild, and not being able to catch them, he asked the Frenchman to shoot them, and not being a Dr. Carver, he only wounded one of them; and after the wounded porker the Irish landlord gave chase; after a long run the pig was finally overhauled as he lay down to root in a mossy mound. In stooping down the settler noticed some "green ore" (or carbonate of copper) mixed through the bloody earth, and this information he gave to some explorers near by and they again notified Mr. Hurlburt—a mining engineer—and to him, with the support and aid of Prof. Agassiz, is due the existence of the Calumet & Hecla mines.

The first workings of the mine were as pit work or open mining, as the surface rock was so very rich that it was simply dug out—excavated—and then sent to the smelting works for concentration, as it yielded over 40 per cent. of copper. But this has been a very serious mistake, as now, when the mine is worked in true mining style or by shafts and levels, the upper levels are slowly but surely settling and coming together, though they tried to correct their error

by making an artificial arch at the surface by filling in with rubbish. Such a keystone as this can never replace the solid natural rock, so that now in spite of the upper levels being one solid mass of timber work, cribs, batteries and stulls, the heavy timbers, some being 4 feet in diameter, are being crushed and broken and even split into match fibres by the enormous pressure; they are delaying this inevitable fall of the hanging wall by keeping from 15 to 20 timber gangs of 6 to 9 men each constantly at work renewing these crushed timbers, but it is only a temporary expedient, sooner or later the roof is sure to come in, though they may be able to work the mine out before that happens.

The belt dips 30° to the northwest though the angle varies a degree or so and averages between 9 and 11 feet in width. The average yield of the rock is between 5 and 6 per cent of copper; the whole bed is not uniform in the yield, some of the levels not going as high as 3 per cent., while others will average nearly 10 per cent.; the workings are so managed that sufficient No. 1 and 2 rock (their high grades) is raised to bring their No. 3 and 4 rock (or poorer grades) to a general average of 5 1-2 per cent. The mine is opened to the 22d level in the Hecla, and to the 21st in Calumet (the two mines opening into one another, being on the same bed) and sinking is being carried to the 23d level in the Hecla; just here, in the sinking, the rock is carrying as rich if not richer than ever, it looking very well. The length of the mine is over 1 mile, and hoisting is being done from the 9th to the 18th levels, all above the 9th level being worked out, while below the 18th level it is simply level, after level down to the 21st, that is all cut and drifted through—even the tracks are laid—so that all that will have to be done, is to simply stope and hoist to immediately raise thousands of tons to the surface, an ore reserve of at least six years, with openings being rapidly pushed ahead and extended. This is satisfactory mining—not only raising enough rock for the mill, but mining and carrying the explorations well ahead of the stoping so that now they not only know what the rock is carrying; what width the veins, and are capable of making any calculations for six years work ahead, but they have, as the rock carries well—a substantial mine reserve—a species of mine assets. The "lifts" or levels are 100 feet apart so that their 23d level will be 2300 feet deep on the lay or incline of the shaft. This rapid increase in depth (it all having been done in 15 years) is going to become a serious item in their hoisting with their present output of 900 tons a day; even now the works are so deep and extensive that two man engines are used, they extending down 1400 feet and a large fan is about to be put up to improve the ventilation.

The underground hoisting from the winzes and shaft sinking is done by small hoisting engines—Bacon's and others—that are worked by compressed air; this is the only mine in the copper region that has these economical and rapid machines, the other mines using the old fashioned windlass with two strong "Cousin Jacks" for the motor.

The rock is brought from the shaft houses to the rock house by automatic dumping cars attached to an endless rope (Frue's tramway,) and here all the large pieces are broken by being put under a large single acting steam ham-

mer, before going to a 24x18 inch Blake, and then to six 10x15 inch Blake crushers. The crushed rock is taken down to Lake Umbagog, 7 miles away, over a 4 foot gauge railroad of the company, the last mile being on an automatic incline, on which the empty cars are hauled up by the loaded down cars. By the lake side are two large stamp mills, in which the rock is dressed to an average "mineral" that yields .88 per cent. of ingot copper. The mills are fitted out with three Ball's stamps apiece, and with the Collum washer; in their tail houses they crush the coarse sands by two small power or spring stamps, and then wash the sands over Collum jigs again. The slime or tailings from the mill are elevated to the top of the tail house by a large water wheel that has the buckets inside; this accomplishes it very satisfactorily, while an ordinary pump—even the rotary pumps—would very soon be cut out by this very sandy and gritty water. In spite of the extensive treatment that the sand receives, the tailings, as they run into the lake, contain 1 1-2 per cent. of copper or 1-4 of the original amount of the rock.

The monthly output is between 1300 and 1350 tons, and the product for last year 12,537 tons. The discovery of the lode was made in 1866, and in '67 the product was 675 tons; from this time the product has steadily increased until now it is half as much again as that of all the other mines put together, the total product for 1878 of all the mines being 20,266 tons. Even this mine that now pays regularly \$20 per annum in dividends, in \$5 quarterly installments, per share of \$25 par value, has had its dark days, for when the very rich surface pocket of "nigger heads" was exhausted, considerable poor rock had to be gone through, and this not only brought out the assessments pretty lively that knocked the stock away down, but also demoralized all confidence in the permanence of conglomerate beds just after they had been brought forward and had fought their way into public confidence. Their after-luck and present fine prospects on their lowest levels has now completely vindicated the character of the conglomerate rock, as depth has certainly improved this mine, barring that extraordinary surface bonanza.

H. A. WHEELER.

[From New York Star.]

Gentle Stock Gamblers.

The Ladies' Stock Exchange, for the exclusive use of those of the gentler sex who are possessed with a speculative desire, has been established in the brown-stone private dwelling No. 40 West Twenty-fourth street. The two lower floors have been set apart for this business, and will be open daily from 10 A. M., to 5 P. M., for ladies of known character and position. The rooms are supplied with stock and news indicators and a telephone, and it is proposed, as the volume of business increases, to connect the rooms with brokers' offices by telegraphic wire. The business is to be conducted strictly according to the cast-iron rules of the New York Stock Exchange, the minimum order being for one hundred share lots. The manager is Mrs. M. E. Favor, who owns the house, and the transactions, she says, will be made through a responsible firm of brokers. The orders to sell or buy will be communicated by telephone to the brokers,

who are to keep each separate transaction precisely as if the order were given on the Stock Exchange, and Mrs. Favor says that contracts can be made, executed and news of it received within six minutes. The "contract" business, better known as "straddles," "puts" and "calls," will be conducted for the ladies through Russell Sage, who has won the pseudonym of "The Nestor of Straddles."

About a year ago Anthony Dimmock started a ladies' room in connection with his up-town Exchange on Broadway, but the publicity of the rooms made ladies timid about entering, and a short time ago the establishment of a Ladies' Stock Exchange was agitated and resulted in the present venture by Mrs. Favor. The Exchange is to be formally opened this morning, though a little speculation has been indulged in since Friday, when one lady bought Louisville at 98, and sold out on Saturday at 111, clearing \$1,300 by the transaction.

Mrs. Favor, in explaining this new department to a Star reporter last evening, said that there was a great deal of speculation in stocks among ladies, many of whom were married, and invested their separate funds with great success. Many of them, she said, deal in "straddles," "puts" or "calls," with as much sangfroid as the most experienced operator, and of course with the same deviating success. The recent panic hurt most of them, Mrs. Favor dropping \$7,000 in Erie on that eventful day. Instances of success were given, showing how a widow on Forty-third street made \$50,000, with a part of which she bought her present residence, while still another started with \$2,000 two months ago, and now has \$17,000, the result of the "boom" in South-western stocks. Many of the speculative ladies spend the entire day watching the fluctuations of stocks on the tape, and giving orders to buy or sell, sending to the restaurant for lunch, so intent are they when the fever is on.

Mrs. Favor is a sharp-witted woman, who converses on the various stocks with the air of a Gould or Keefe. She is of medium size, rather good looking, exceedingly good-natured, and has jet black eyes which fairly sparkle when she is conversing.

Personals.

COL. J. CARY FRENCH, of Lamoine, was in Bangor early in the week.

PROF. W. F. STEWART on Saturday of last week left Bangor for Portland.

MR. C. C. COUILLARD, of the Boston Herald, has this week visited the Acton mines.

JUDGE WISWELL, President of the Gouldsboro S. M. Co., has been on a brief visit to Bangor.

MR. THOMAS DALBY, Treasurer of the Millbrook Silver Mining Company, and MR. DAVIS, of the Boston Advertiser, recently made a visit to the Millbrook mine.

MR. W. H. ADAMS, of the Maine Mining Exchange in Boston, and MR. FROST, of the Boston Globe, have been on a visit this week to the mines of Blue Hill and Sullivan.

We learn that A. S. DARLING of Enfield, who has been running an express from Burlington, Lowell and Enfield via E. & N. A. R. R., to Bangor, has left that business and is

now employed by Col. Wm. H. Darling as his agent in the mining business. We wish him success, and will say that he will be greatly missed on his former route, as he has faithfully discharged his duties in that section for upwards of five years.

CORRESPONDENCE.

Mining in the land of Egypt.

Editor Maine Mining Journal:

There was once on a time in days long since gone by a man named Pharaoh, who dwelt in a land called Egypt. It is said in the good book that Pharaoh was rather a hard-hearted man, or at least at times he seemed to be a little like a chicken ten years old, a little hard, and he didn't want the children of Israel to get up and get; but the good man Moses said "follow me," and they followed.

A few days since we had the pleasure of visiting the land of Egypt. We inquired for Pharaoh but nary a Pharaoh; they said that he was dead. We cast our eyes down upon the briny waters at the head of Frenchman's Bay, but we saw nothing of the children of Israel or Pharaoh's army. We did see, however, the Clark Silver Mine, and the very fine and thoroughly mineralized ore taken from it at the depth of only ten feet. We cast our eyes to the right and beheld the Robert Emmett a short distance from the Clark. Into this mine we gently dropped and examined the fine ore at a depth of forty feet, and it is only a question of time when the ore taken from this section will prove to the public that Egypt in Franklin contains one of the richest mineralized belts that the State of Maine can boast of, and inside of one year from the writing of this article the land of Egypt will in our opinion be as well known as is Acton or Blue Hill to-day.

It has been said by experts that Egypt was one vast bed of mineral wealth and we satisfied ourselves of one point at least that the rocks in the fields and pastures are full of precious mineral, and also that the loose rocks on Butler Island a few hundred feet from the Emmett and Clark mine are full of it and "the woods are full of it," and we know that about thirty pieces of property are bought, bonded or leased in this land of Egypt, and we are glad that we are lucky enough to be one of the lucky ones, and now if Pharaoh will only keep out we intend to help in opening some of the finest mines that have been opened in this country or any other.

We hope the reader will not think this article is put in to puff up this mining property, for we acknowledge we are interested and we don't ask people to put their money in and help develop these mines unless they wish to, but we are not afraid to put our shoulder to the wheel, believing that by so doing we can not only help ourselves but put new life into the languishing industries of our State.

We believe in the mining business and see no good reason why it should be discouraged, for certainly mining can be conducted on a strictly legitimate basis and it has been proved beyond a doubt that our State contains precious ore enough to be worked at a good profit.

The sceptics are fast disappearing and it is difficult to find any one who has thoroughly investigated the subject but admits that the mines have every indication of being paying properties and some of them will be in condition to pay dividends before this year ends if they deem it advisable to do so.

People who have not investigated the Maine mines are apt to compare them with Western mining which is unjust, for according to the laws of the State of Maine all mining stock is unassessable and neither can it be watered.

The only question therefore for a person to ask, wishing to invest in our mines, are these, is it a good mine, and is it under good management?

Our view of it is that it is almost impossible for any one to lose who buys in any good mine before the stock has reached par, and we do not know of any instance wherein a single share of stock in any mine in the State has not up to this time more than doubled and in the majority of cases has doubled within three months.

Portland, Me., Feb. 10th, 1880.

Sullivan, Gouldsboro and Cherryfield.

To the Editor of the Maine Mining Journal:

DEAR SIR:—Mining is now elevated to an industry in this section of the State, and reproaches from the conservatives are growing hourly less. Indeed we see many names now connected prominently with the later organized corporations whose cynicism on the subject a year ago seemed absolutely imper-

vicious. They have changed their minds, that is all, and the work which has been the occasion of this change has been done in the few mines that we wish to refer to in this letter.

Two years ago the "Sullivan" was started by Mr. Francis Worcester, and the ore, soon carrying native silver quite heavily, gave a certain notoriety to this lead which has been largely instrumental in putting eastern mining on its present footing. This was followed by the "Millbrook" on the same lead, which, though showing very rich indications at times in its progress downwards, did not exhibit a heavy ore body until at the present depth, when it came in solid, displaying almost every characteristic of its famous parent, the "Sullivan." Others followed in time, and that great vein is now being sunk upon for two miles in extent by many wealthy companies notably among them being the "Waukeag," "Milton," "Pine Tree," and "Ashley." Mr. Francis Worcester, Jr. is also operating with the best of indications farther east on the same vein, the ore showing a surprising resemblance to the Sullivan.

At Gouldsboro the first shaft was sunk on the property now known as the "Home" mine. The ore was a very massive galena and gave great hopes of immense wealth at no great depth. It is still being worked rapidly under the auspices of an energetic company and promises great results in the near future. The "Gouldsboro" proper was next opened, showing an immense body of the most beautiful ore yet disclosed in the State. Extensive labors have been accomplished by this company and they are still working energetically in a wide streak of rich ore which promises to develop into a Bonanza such as has not been seen east of the Comstock. Other shafts on this lode are pursuing their endeavors to strike another deposit like the "Gouldsboro," with good indications of success.

The "Cherryfield" was the next point where any large amount of rich ore was struck. This was an ore carrying a large percentage of zinc with its galena, and exhibiting every characteristic of permanency. At the depth of ninety feet, after varied fortune, they have struck what appears to be a continuous ore body—rich throughout, and showing some features that are even more promising than are seen in any other mine. Thus we have three distinct leads showing rich ore, at Sullivan, at Gouldsboro and at Cherryfield, with an interval of ten miles between each. If this is not a sufficient warrant of the legitimacy of our industry, what must we show to call the attention of investors?

Ellsworth, Me., Feb. 10, 1880.

Gouldsboro.

Editor Maine Mining Journal:

At the Gouldsboro (now too well known to need an introduction) the shaft is down 80 feet and showing a large well defined vein of quartz and vein matter, over seven feet in width. That this is not the whole width may readily be seen, as a band of quartz carrying galena and copper has been left on one side of the shaft as a root wall, the true wall not being in sight.

The ore at 80 feet is showing better than it ever has, and assays of 100 ounces to the ton of 2000 lbs can be shown at any time and much higher by taking a picked specimen.

Antimonial sulphuret of silver is one of the new grades of ore now found in this mine and every fresh blast shows more and larger specimens of it.

The shaft is now being substantially timbered and new and suitable machinery for working the mine to a good depth will be put in at once.

The "Home" is showing one of the largest and handsomest quartz veins in this whole eastern section and the fine specimens taken from the shaft and the highly mineralized character of the whole vein make this mine rank in prospective value with the best. The shaft is now down 60 feet, and showing well in the bottom!

ARASTRA.

Gouldsboro, Feb. 10th, 1880.

Cherryfield.

Editor Maine Mining Journal:

The Cherryfield mine still continues to improve both in the quantity as well as the quality of ore being taken out.

The shaft has now reached a depth of 105 feet and active preparations are being made for drifting, which will be commenced immediately.

The vein at this depth has a width of nearly two feet of almost solid mineral, exceeding in richness any hitherto taken out of this mine.

The rock at the bottom of the shaft, outside of the vein is highly mineralized and is filled with numerous quartz stringers, running parallel with the main vein and containing argentiferous galena. These are widening as depth is attained and must inevitably consolidate with the now existing "pay streak" at no

great depth. As soon as drifting is commenced, it is expected sufficient ore will be taken out to more than pay the working expenses.

Several assays made from specimens of the ore taken out at present depth, have given results running from 80 to 165 ozs of silver per ton. The galena contained in this ore is exceedingly rich in silver, and when concentrated assays upwards of 200 ounces of silver per ton.

Steam hoisting and pumping machinery is to be put in immediately and a new shaft will be started early in the spring. The Cherryfield bids fair to be one of the best paying mines in the State of Maine.

Cherryfield, Me., Feb. 10th, 1880.

New Companies.

Mr. F. Worcester, of Sullivan notoriety, seems to think the proper time is approaching for him to put several choice pieces of mining property, (for which he has heretofore refused to even name a price) on the market, and strong companies will be formed on the following described pieces within the next month: At Sullivan on the Gordon lot adjoining the Milton company on the southeast, and having six hundred feet water front, will be formed the Sullivan Falls S. M. Company under Boston management; also another company on the Clapham property, lying between the Milton and Millbrook. Upon this property a shaft is now being sunk which shows mineral of a most satisfactory character.

At Gouldsboro the Mill lot and Ross lot, adjoining the Gouldsboro Mining Company's property north, are now united, giving some 1200 feet on Gouldsboro main vein, and at places uncovered, showing galena, giving from 139 to 300 oz. of silver per ton. This valuable property, or rather the mining right to it, passes into the hands of the Bay View Silver Mining Company composed of both New York and Boston gentlemen, Mr. Worcester retaining the mill site and water power and erecting concentrating works at once, which will enable Gouldsboro mines to sell their mineral as soon as mined, instead of having to pile it up in the rock waiting for erection of works on the coast available for them to ship to for concentration.

Mr. Worcester also puts on the market that portion of the Geo. Guptill lot joining the Gouldsboro vein on the southeast. The name of this company is not yet given, but we understand it is to be wholly owned in New York.

The wonderful showing of ore on the Millbrook and Milton which these properties formed in Sullivan adjoin, and those in Gouldsboro being the direct continuation of the famous Gouldsboro (probably second to no mine in the State) make this announcement of their coming simultaneously on the market of more than ordinary interest to the investors in Maine mines.

LODES, LEADS AND VEINS.

[We earnestly request superintendents of mining operations to send in from time to time such information and actual facts as shall assist in showing up their properties, together with specimens of ores, maps, etc., which will be on exhibition in our office. We wish to make this department as complete as possible and in order to do so, we must necessarily have the co-operation of all who have mining works in charge. It is of the utmost importance, however, that correspondents should deal with actual facts rather than probabilities.]

QUEEN CITY.—Work is in progress. The shaft is about eighteen feet in depth.

HAMPDEN.—The timbering is completed. The twin engines are expected to arrive daily. The new boiler is already in place. Immediately upon the arrival of the engines the sinking of the shaft will be resumed. There has been a great demand for treasury stock. Within the past few weeks 60,000 shares of treasury stock have been disposed of at the rate of 12 1-2 cents per share. The price has now been increased to 15 cents. The mine is thoroughly equipped, has a shaft 95 feet in depth and a large sum in the treasury.

LAWRENCE.—An open cut has been made to get rid of the surface water which has been somewhat troublesome. The work on the shaft will be commenced at once.

HARRINGTON.—It is expected that a miner from Nevada will assume duties of the Superintendent.

CORINNA.—The shaft is now about 50 feet in depth. Supt. Hunt writes that a feeder several inches across and carrying galena was recently cut through. Numerous smaller feeders have been met in sinking the shaft. The question of hoisting apparatus is being agitated. It has not been decided whether to introduce steam machinery at once or whether to wait till spring and use other power for the present.

KATAHDIN IRON WORKS.—A new deposit of iron ore has recently been found at the Katahdin Iron Works. It is richer than any ever before opened in that section. The present capacity of the smelting furnace is twelve tons of pig iron per day. The iron is hauled a distance of eighteen miles to the Bangor & Piscataquis railroad station at Milo. It finds ready sale, leading the market in the manufacture of car wheels for which it is especially fitted. This iron which three years ago was selling slow at \$25 per ton now sells "quick" at \$50. The Katahdin Iron Works is now a very lively place. Twelve thousand cords of wood is being cut by contract for the company. A larger amount than ever before of first-class ore is being hauled daily to the furnace. Mr. O. W. Davis is the agent of the company.

BARNES' STRIKE.—The shaft has been sunk some four feet farther in depth. The ore shows decided improvement.

WESTERN UNION.—Work on the Western Union is progressing finely. The main shaft is down about 10 feet and as soon as it is of sufficient depth a shaft house will be erected. The vein will be struck about 80 feet from the surface. Specimens at four feet from the surface show a large percentage of silver and copper. The blacksmith shop is just completed.

McFARLAND.—The McFarland continues to look well. The vein is a true fissure with clay lined walls on both sides, and is rapidly increasing in width. A new blacksmith shop and a temporary shaft-house have been erected, work is being pushed rapidly, and next month a night gang will be put on in addition to the day crew. A limited amount of treasury stock was put on the market recently, and sold readily at \$1 a share.

LITTLE SUE.—Col. French commenced work on this property about two weeks ago, and already quite a quantity of ore has been taken out. The property shows a fine vein and the ore is improving in quality. The Colonel, who is an experienced miner, considers the indications very flattering.

SULLIVAN.—The air compressors and steam boilers for the Sullivan arrived in Bangor on Wednesday from Boston by railroad and were at once shipped to the mine.

MILTON.—A letter from Supt. Shoenbar says: "Everything is progressing finely in and about the works and the outlook is very promising."

GOULDSBORO.—The work of timbering still progresses and will soon be completed, when the mine will be in first class working order.

WEST AND SOWLE.—The West and Sowle Silver Mining Company was organized in Ellsworth on Wednesday of last week. The capital is \$500,000, divided into 100,000 shares of a par value of \$5 each. About one third of the stock is placed in the treasury for developing the property. The officers are President, Joseph H. West, of Franklin; Treasurer, Hudson B. Saunders, of Ellsworth; Secretary, Edward F. Robinson, of Ellsworth, and Directors, J. H. West, II. B. Saunders, E. F. Robinson, John F. Whitcomb, A. R. Devereux and James W. Davis. The property is situated on the shore of West Bay, about one-half mile below the celebrated Gouldsboro Silver Mine, and on the same vein. With regard to the developments;

we only know that work has been progressing for several months and the shaft has reached a considerable depth.

CHERRYFIELD.—This mine is looking better than ever. Large quantities of magnificent ore are being taken out which assay upwards of 50 ozs. silver per ton. The workmen have nearly reached the point where it is proposed to start the first level, and the prospects for the future are all that could be wished.

ATLANTIC.—The work is progressing favorably under the supervision of Supt. Le Prohon. The shaft has now reached a depth of 65 feet.

BANGOR AND BLUE HILL FALLS.—The work is progressing in the shaft. It is expected that steam machinery will be put in in a month or six weeks.

RISBEE.—A crew of men are about to commence the erection of a large shaft house. The manager writes to the Secretary, Mr. Milliken, that he is getting some silver and very fine copper-ore out at every blast.

BAY VIEW.—The shaft is being timbered and shops are being erected.

TWIN LEAD.—The work on the shaft is progressing rapidly. On Thursday and Friday of last week some fifty tons of ore of a high grade were taken from the shaft. A shaft house, carriage house and office are being erected. A small amount of treasury stock has found ready sale at \$2.00.

STOVER HILL.—The shaft has reached the 100 foot level and drifting will soon commence east and west on the vein. The crew will be increased as soon as more men can be worked advantageously. A steam drill will probably be used in a short time.

BLUE HILL CENTRAL.—It is announced that the Blue Hill Central Mining Company will be organized at Bangor on Saturday of this week.

YOUNG HECLA.—The Young Hecla Copper Mining Company of Blue Hill was organized at the Maine Mining Exchange in this city on Friday afternoon of last week. The capital is \$500,000, divided into 100,000 shares of a par value of \$5 each. The officers are, President, John S. Jenness, Bangor; Vice President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors, John Jenness, Charles Hamlin, Samuel R. Prentiss, William A. Swazey, Wm. H. Darling and James W. Davis. The property is located directly west of Twin Lead mine. It is one-half of the celebrated Swazey property. The work of sinking a shaft has already commenced. The shaft will be sunk on the vein.

WHITE STAR.—Work was commenced on the shaft on Monday of last week. A blacksmith shop is being erected.

FAVORITE.—It is the intention to organize the Favorite Copper Mining Company of Blue Hill at the Bangor Mining Exchange on Wednesday of next week.

CANDAGE.—The Candage Copper Mining Company of Sedgwick was recently organized. The officers are President, A. C. Hagerthy, of Sedgwick; Treasurer, James P. Byard of Sedgwick; Secretary, Geo. W. Hale, of Sedgwick. The capital is \$500,000, divided into 100,000 shares of \$5 each. One fourth of the amount is devoted to treasury purposes. The property is located at Blue Hill Neck. It is now being developed.

ARCTIC.—The property is located on Blue Hill Mountain. Mr. Fred Smart commenced work on the 20th of January. He claims to have found a true fissure vein eight feet in width. The shaft is now down eight feet. The vein is thoroughly mineralized.

TIP TOP.—The property is on Blue Hill mountain and adjoins the Arctic. Nothing but prospecting has been done upon it.

SILVER REEF.—In our last issue we published a partial list of the officers of this recently organized company. The Directors are W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg,

F. W. Ayer, E. B. Smith, and H. M. Bartlett. It is probable that work on the property will be commenced next week. It is the intention to erect at once the blacksmith shop and other necessary buildings. The directors recently voted to dispose of 5,000 shares of the treasury stock at sixty cents and a large portion of this amount has been already taken up.

OWL'S HEAD.—The Rockland Opinion says: "Mr. Archibald McEachern, foreman of the Owl's Head mine, has shown us a piece of quartz from the mine containing free or native gold. The quartz is milk white, thickly splashed with the bright pure gold, which can be plainly seen with the naked eye. This specimen was taken out of the southwestern end of the shaft hole last Friday, and is the third discovery of free gold made in the mine. This vein of gold bearing white quartz runs side by side with the vein containing the silver, which is altogether a different looking kind of rock, and it is thought the former will, as it is uncovered further, predominate and form what is known as a fissure vein. We give this information just as it was given by Mr. McEachern, who is an old miner who has helped disembowel Colorado mountains of their wealth, and is prepared to maintain all his statements to any who wish to investigate, and to show the specimens taken from the mine."

BOSTON ACTON.—The Boston Acton Silver Mining Company of Acton has been organized. The capital is \$500,000, divided into 100,000 shares of a par value of \$5 each. The officers are President, John S. Morris, Portland; Treasurer, Abram A. Dennett, Portland; Secretary, Sterling Dow, Portland; Directors, John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., and Ferguson Haines.

DIRIGO.—Two engines are being worked at the shaft, which has reached a depth of 80 feet. The ore is improving in quality and the superintendent expects to strike paying ore in a few weeks. The work is in charge of Mr. Gould, formerly superintendent of the Merrimac mine at Newburyport.

GARDNER MOUNTAIN.—Work is in progress in the shaft which is now about 60 feet in depth.

Nuggets of News.

A valuable vein bearing gold and silver has been discovered near the head of Morgan's Bay on the eastern shore. The vein is splendidly mineralized, and is ten inches wide at the surface with good and regular walls, extending in an easterly direction for upwards of one thousand feet. The facilities for shipping ore at this place are unrivalled, as vessels of large size can lie within a hundred feet of the vein, making this a most valuable discovery. Morgan's Bay is in South Surry, near the Blue Hill line.

Several hundred shares of Ashley stock were sold last week at \$2, by Treasurer Dalby at the office of the company, 43 Milk Street, Boston.

Handsome and spacious apartments have been fitted up at 43 Milk Street, Boston, to be used as offices for the Ashley and Millbrook Silver Mining Companies. Mr. Thomas Dalby will have charge, and will also have for sale stocks of the Gouldsboro and Cherryfield companies.

Many of our subscribers are asking for information concerning the Ellsworth Silver Mining Company whose stock was recently quoted at \$2.65 in Boston. The only facts we have been able to learn about it are from a Boston Gentleman who has seen certificates of the stock and states that the company is organized under the State laws of Connecticut with a capital of \$1,000,000, and the following clipped from the Ellsworth American: "The Ellsworth Silver Mining Company, was organized in New York, last week, with a capital stock of \$1,000,000. This mine is located on land of Capt. F. J. Sargent, within about one and a half miles of the Ellsworth Post Office. The mineral is gold and silver and is said to be rich."

FOR THE WEEK ENDING TUESDAY, FEB. 10, 1980

Closing Prices at New York Mining Exchange.

FOR EACH DAY OF THE WEEK ENDING TUESDAY, FEBRUARY 10, 1880

Maine Mining Exchange, 28 Congress Street, Boston.

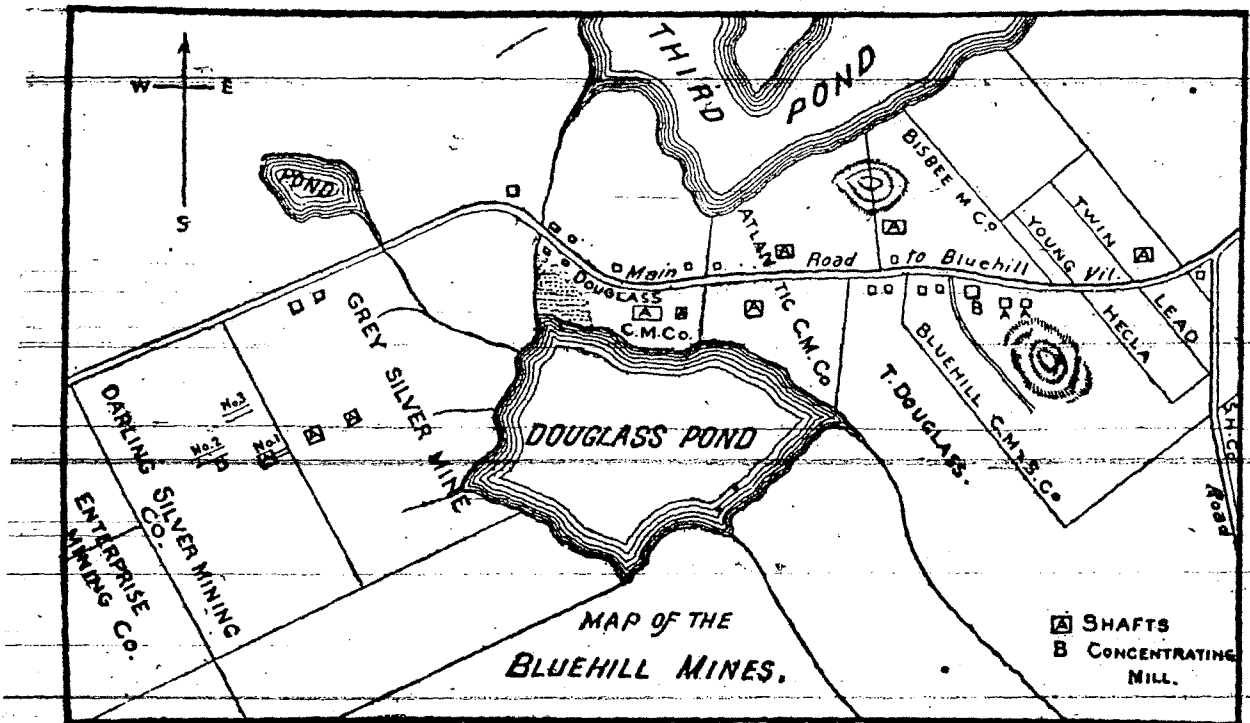
Portland Mining-Exchange.

The following are the closing prices at Portland Mining Exchange, Feb. 3d by T. H. Mansfield & Co., 57 Exchange street:

Closing Prices at Boston Stock Exchange.

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, FEBRUARY 11, 1890.

It is expected that an experienced assayer from the West will soon arrive at Bangor and open an assay office at the Maine Mining Exchange in that city.



Maine Mining Directory.

INCORPORATED COMPANIES.

Atlantic Copper Mining Company, Blue Hill, Me.
 Blue Hill Copper Mining and Smelting Co., Blue Hill, Me.
 Bangor & Blue Hill Falls Mining Co., Blue Hill, Me.
 Bisbee Copper Mining and Smelting Co., Blue Hill, Me.
 Douglass Copper Mining Co., Blue Hill, Me.
 Stover Hill Copper Mining Co., Blue Hill, Me.
 Twin Lead Copper Mining Co., Blue Hill, Me.
 Darling Silver Mining Co., Blue Hill, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Milton Mining and Milling Co., Sullivan, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 Grant Silver Mining Co., Hancock, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Home Silver Mining Co., Gouldsboro, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Petit Menan Silver Mining Co., Petit Menan, Me.
 Edgemoggin Silver Mining Co., Sedgwick, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Riverside Mining Co., Camden, Me.
 Acton Silver Mining Co., Acton, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 Forest City Silver Mining Co., Acton, Me.
 Dirigo Silver Mining Co., Acton, Me.
 Hampden Silver Mining Co., Hampden, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Maine Silver Mining Co., Dexter, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Mineral Spring Silver Mining Co., Palmyra, Me.
 Lubec Silver Mining Co., Lubec, Me.
 Mineral Hill Mining Co., East Wakefield, N. H.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Lone Star Gold and Silver Mining Co., Woodstock, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 McFarland Silver Mining Co., Hancock, Me.
 Clark Silver Mining Co., Franklin, Me.
 Norumbega Silver Mining Co., Hampden, Me.
 Bay View Silver and Copper Mining Co., Blue Hill, Me.
 Fort Knox Silver Mining Co., Prospect, Me.
 Lawrence Silver Mining Co., Hampden, Me.

Globe Silver Mining Co., Gouldsboro, Me.
 Little Sue Silver Mining Co., Lamoine, Me.
 Egypt Silver Mining Co., Franklin, Me.
 White Star Silver and Copper Mining Co., Blue Hill, Me.
 Eastern Star Silver Mining Co., Ellsworth, Me.
 Western Union Silver Mining Co., Hancock, Me.
 Morancy Silver Mining Co., Sullivan, Me.
 Silver Reef Mining Co., Blue Hill, Me.
 Boston Acton Silver Mining Co., Acton, Me.
 Ellsworth Silver Mining Co., Ellsworth, Me.
 Young Hecla Copper Mining Co., Blue Hill, Me.
 West and Soble Silver Mining Co., Gouldsboro, Me.
 Snow Silver Mining Co., Bucksport, Me.
 Candage Copper Mining Co., Blue Hill, Me.
 Bucksport Silver Mining Co., Bucksport, Me.

PRIVATE COMPANIES.

Gray Silver Mining Co., Blue Hill, Me.
 Whitten Silver Mining Co., Hancock, Me.
 Clapham Silver Mining Co., Sullivan, Me.
 Tugwassa Silver Mining Co., Sullivan, Me.
 Pine Tree Silver Mining Co., Sullivan, Me.
 Hector Silver Mining Co., Gouldsboro, Me.
 Britton Silver Mining Co., Cherryfield, Me.
 Trescott Silver Mining Co., Lubec, Me.
 St. George Silver Mining Co., Lubec, Me.
 Denbo Point Silver Mining Co., Lubec, Me.
 Fowler Silver Mining Co., Hampden, Me.
 Wing's Mills Silver Mining Co., Hampden, Me.
 Eastman Silver Mining Co., Hampden, Me.
 Hillside Silver Mining Co., Hermon, Me.
 Antimony Silver Mining Co., Levant, Me.
 Bassick Silver Mining Co., Lowell, Me.
 Shorey Silver Mining Co., Lowell, Me.
 Eskutassis Gold Mining Co., Lowell, Me.
 Guilford Silver Mining Co., Guilford, Me.
 Porter Silver Mining Co., St. Albans, Me.
 French Silver Mining Co., St. Albans, Me.
 Holland Silver Mining Co., St. Albans, Me.
 Silver Wave Silver Mining Co., Acton, Me.
 Emma Albina Silver Mining Co., No. Penobscot, Me.
 Lady Elgin Silver Mining Co., Blue Hill, Me.
 Blue Hill Central Copper Mining Co., Blue Hill, Me.
 City of Boston Copper Mining Co., Blue Hill, Me.
 Eastern Belle Gold and Silver Mining Co., Penobscot, Me.
 Barnes' Strike, Bucksport, Me.
 Arctic Mining Co., Blue Hill, Me.
 Star of the East Mining Co., Blue Hill, Me.
 Curtis Silver Mining Co., South Surry, Me.
 Lebanon Acton Silver Mining Co., Lebanon, Me.
 Deering Acton Silver Mining Co., Acton, Me.

ACTON SILVER MINING COMPANY, ACTON,
Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.

President, Hon. George Walker, Portland;
Treasurer, A. A. Bennett, Portland; Secretary,
John S. Morris, Portland; Directors: Hon. Geo. F.
Wescott, Judge Nathan Cleaves, Hon. Franklin J.
Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland,
Me.

Mr. COFFEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL,
Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.

President, Hon. F. M. Loughton, Bangor; Treasurer,
Wm. P. Hubbard, Bangor; Secretary, C. F.
Bragg, Bangor; Directors—F. M. Loughton,
Bangor; F. W. Hill, Bangor; C. P. Dixon,
N. Y.; O. F. Bragg, Bangor; H. C. Martin,
Brunswick; David H. Smith, Winterport; Capt.
John Humphrey, Boston.

E. M. LE PROHON, Supt.

AMMONOSUC COPPER MINING COMPANY,
Bath, Grafton County, N. H. Incorporated
under the laws of the State of Maine, Dec. 1879.

Capital Stock, \$500,000; Shares, \$10 each; Treasury
Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary
and Treasurer, George S. Winn, Portland;
Directors—Edmund Dana, Jr., John S. Morris, E.
L. O. Adams, all of Portland.
Office of Company, 22 Exchange St. Portland
Me.

E. L. O. ADAMS, Manager.

SILEY SILVER MINING COMPANY,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury
Fund, 20,000 Shares.

President, J. R. Grose, Boston; Treasurer, Thomas
Dalby, Boston; Secretary, Wendell Horne, Sul-
livan; Directors—J. R. Grose, Thomas Dalby, J.
W. Tuttle, Wendell Horne, J. Farwell, Jr.

WENDELL HORNE, Supt.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.

President, Geo. Brooks, Orlington. Treasurer
and Secretary, E. C. Smart, Bangor. Direc-
tors—L. L. Haddon, Bangor; Geo. Brooks, Orlin-
ton; E. C. Smart, Bangor; H. P. Blood, Bangor;
Geo. R. Smith, Hallowell.

BLUE HILL COPPER MINING & SMELTING
CO., BLUE HILL, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury
Fund, 25,000 Shares.

President, F. C. Blanchard, Boston. Treasurer,
Thomas H. Lord, Secretary, B. O. Cutter, Blue
Hill. Directors—S. C. Blanchard, Joseph Nick-
erson, Capt. McNier, Frank B. Dole, Manering Em-
ery.

B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.

President, D. H. Bisbee, Camden. Treasurer
and Secretary, Hon. S. L. Milliken, Belfast. Man-
ager, A. I. Brown, Blue Hill. Directors—D. H.
Bisbee, S. L. Milliken, Isaac Coombs, Arthur I.
Brown, W. E. Grindle.

A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Wm. T. Pearson of Bangor; Vice-
President, John S. Jenness of Bangor; Treasurer,
Edward H. Kealley of Bangor; Secretary, John H.
Mason of Bangor; Directors—Wm. T. Pearson,
John S. Jenness, Chas. Woodman, E. C. Hucks,
John R. Mason, Ezra L. Starna.

BOSTON ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.

President, John S. Morris, Portland; Treasurer,
Abram A. Bennett, Portland; Secretary, Sterling
Dow, Portland; Directors—John S. Morris, Pay-
son Tucker, Frank G. Stevens, Clarence Hale, Han-
son Gregory, Jr., Ferguson Haines.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury
Fund, 10,000 Shares.

President, Sam'l Campbell, Cherryfield. Treas-
urer, Judge J. A. Milliken, Cherryfield. Secretary,
Hon. Wm. Freeman, Cherryfield. Manager, Fran-
cis Worcester, Ellsworth. Directors—William
Freeman, Samuel A. Campbell, James A. Milliken,
W. A. LEONARD, Supt.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treas-
ury Fund, 100,000 Shares.

President, Henry L. Murch, Ellsworth; Treas-
urer, Alexander Fulton, Ellsworth; Secretary,
J. T. Orlippen, Ellsworth; Directors—T.
H. Mansfield, Portland; Henry L. Murch, Kis-
worth; J. T. Orlippen, Ellsworth; H. B. Phillips,
Ellsworth; Isaac A. Murch, Ellsworth.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury
Fund, 15,000 Shares.

President, D. W. Ames, Portland. Treasurer,
Willard C. G. Carney, Portland. Secretary, Geo.
F. Gould, Portland. Directors—Daniel W. Ames,
Curtis A. Parsons, Willard C. G. Carney, William
S. Sampson.

CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 10,000 Shares.

President, Hanson Gregory, Jr., Rockland.
Treasurer, Stephen Jennings, Bangor. Secretary,
H. B. Darling, Blue Hill. Directors—H. Gregory,
Jr., Stephen Jennings, A. C. Hamlin, Wm. D.
Swazey, E. C. Arey, Charles Hamlin, Geo. A. Al-
den.

HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.

President, Frank P. Wood, Bangor. Treasurer,
Stephen G. Downs, Bangor. Secretary, Dr. W. K.
Knowles, Bangor. Directors—Frank P. Wood,
Dr. W. K. Knowles, V. Darling, F. H. Clergue, O.
F. Bragg, C. H. Huckins, W. P. Hubbard.

E. M. LE PROHON, Supt.

DIRIGO SILVER MINING COMPANY,
Acton, Me. Incorporated, Jan., 1879.
Capital, \$500,000; Shares, \$5 each.

President, I. F. Cloutman, Farmington, N. H.;
Treasurer, Elerson O. Curtis, Farmington, N. H.;
Secretary, E. H. Hayes, No. Lebanon, Me.; Direc-
tors—I. F. Cloutman, J. O. Nute, John M. Berry,
Alonso Nute, Elerson O. Curtis, Geo. A. Jones, Ru-
fus B. Foss.

Ma. GOULD, Supt.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.

President, W. C. Collins, M. D., Bucksport; Treas-
urer, Leander Hancock, Bucksport; Secretary, O.
P. Cunningham, Bucksport; Directors—James
Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr.
W. C. Collins, O. P. Cunningham.

W. C. COLLINS, Supt.

EASTERN STAR SILVER MINING COMPANY,
Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.

President, Hon. A. Webb, Bangor; Treasurer,
Joseph K. Mayo, Bangor; Secretary, A. F. Smith,
Bangor; Directors—A. Webb, A. F. Smith, J. W.
Milliken, Owen McCann, John A. Freese.

EGYPT SILVER MINING COMPANY,
Franklin, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$5 each.

President, James F. Davis, Ellsworth; Treas-
urer, A. W. Greeley, Ellsworth; Secretary, E. E.
Brady, Ellsworth; Directors—James F. Davis, A.
W. Greeley, E. E. Brady, A. H. Norris, O. N. Byrn.

EDGEHOGGIN SILVER MINING COMPANY,
Sackville, Me. Incorporated, June, 1877; re-
organized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each.

President, Capt. Chas. Deering, Cape Elizabeth;
Treasurer, Alfred Haskell; Secretary, John S.
Morris, Portland; Directors—Capt. Chas. Deering,
A. P. Currier, S. D. Leavitt, W. H. Sargent, Wm.
R. Page.
Office of Company, 22 Exchange St., Portland, Me.

FOREST CITY SILVER MINING COMPANY,
Acton, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.

President, Hon. James Bailey, Portland; Treas-
urer, John W. York, Portland; Secretary, Emery
S. Redlon, Portland; Assistant Secretary, H. W.
Pinkham, Portland; Directors—Hon. James Bal-
ley, John E. Palmer, Chas. M. Rice, Clark H. Ba-
ker, James E. Sturgis, Benjamin Barnes, Jr.

GARDNER FLOYD, Supt.

FORT KNOX SILVER MINING COMPANY,
Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Wm. H. Fogler, Belfast; Treasurer,
T. B. Grant, Prospect; Secretary, John F. Libbey,
Prospect; Directors—Wm. H. Fogler, T. B. Grant,
A. R. Fellows, B. S. Grant, James H. Douglass.

A. R. FELLOWS, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of
Maine, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 100,000 Shares.
President, Samuel Atwood, Winterport, Me.;
Treasurer, Henry T. Sanborn, Winterport, Me.;
Secretary, Walter Haley, Winterport, Me.; Direc-
tors, Samuel Atwood, Hanson Gregory, Jr., E. C.
Arey, Walter Haley, Henry T. Sanborn, John At-
wood, G. B. Putnam.

Supt.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury
Fund, 20,000 Shares.

President, Judge A. P. Wiswell, Ellsworth.
Treasurer, Charles C. Burrill, Ellsworth. Secre-
tary, J. B. Redman, Ellsworth. Directors—A. P.
Wiswell, C. C. Burrill, Eugene Hale.

W. I. VALENTINE, Supt.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me.
Capital, \$500,000; Shares \$10 each.

President, O. H. Perry of Boston; Treasurer,
Geo. A. Gibson of Boston; Secretary, E. G. John-
ston of Sullivan; Directors—O. H. Perry, G. A. Gi-
bson, E. G. Johnston and Geo. W. Pettengill.

GRAFTON COPPER MINING COMPANY,
Bath, Grafton County, State of New Hamp-
shire. Incorporated under the laws of the State
of Maine. Incorporated, Jan., 1880.

President, Franklin J. Rollins, Portland; Treas-
urer, Stephen C. Berry, Portland; Directors—
Franklin J. Rollins, Clarence Hale, Stanley T.
Pullen.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.

President, H. M. Hall, Ellsworth; Treasurer,
Geo. W. Fiske, Ellsworth; Secretary, E. K. Hop-
kins, Ellsworth; Directors—Henry M. Hall, Geo.
W. Fiske, E. K. Hopkins, Robert Mullae, E. P.
Reed.

HAMPDEN SILVER MINING COMPANY
Hampden, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 200,000 Shares.

President, Hon. F. M. Loughton, Bangor. Treas-
urer, C. E. Hill, Bangor. Secretary, C. F. Bragg,
Bangor. Directors—F. M. Loughton, W. H. Strick-
land, C. F. Bragg, F. W. Hill, J. P. Tucker.

CHARLES DUNTON, Supt.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.

President, E. C. Nichols, Bangor; Vice-
President, Ezra L. Starna, Bangor; Treasurer, C.
P. Wiggin, Bangor; Secretary, E. M. Hersey, Ban-
gor. Directors—John S. Jenness, James Lutz-
feld, James Tobin, James A. Davis, Hon. H. C.
Martin.

WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.

President, Wm. H. Darling, of Blue Hill; Vice-
President, John S. Jenness, Bangor; Treasurer, W.
J. Webb, Bangor; Secretary, W. Lee Johnson, Ban-
gor; Directors—Wm. H. Darling, John S. Jenness,
Hiram B. Williams, W. Oscar Arnold, Jacob Stern,
Manley G. Trask, Geo. W. Sweetser.

Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, H. B. Mason; Secretary and Treas-
urer, Dr. I. W. Hodgkins, Ellsworth; Directors—
H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr.
K. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 90,000 Shares.

President, L. Foster Morse, Boston. Treas-
urer, Thomas Dalby, Boston. Secretary, Sidney
E. Horne, Sullivan. Directors—L. F. Morse,
Sidney E. Horne, James E. Grose, Thomas Dalby,
Edward Worcester.

SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office,
4 Sears Building, Boston.

President, J. D. Prescott, of Boston, Mass.; Sec-
retary, W. O. Arnold of Bangor, Me.; Treasurer,
G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value
\$5 each. Unassessable.

JOHN SHOENBAR, Supt.

MC FARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treas-
urer, I. S. Johnson, Bangor; Secretary, A. W.
Cushman, Ellsworth; Directors—Henry Whiting,
I. S. Johnson, S. N. McFarland, F. A. McLaughlin,
A. W. Cushman.

F. A. McLAUGHLIN, Supt.

MORANCY SILVER MINING COMPANY
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Guy W. McAllister, Bucksport; Treas-
urer, A. C. Swazey, Bucksport; Secretary, F. H.
Moses, Bucksport; Directors—G. W. McAllister,
J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H.
Moses, E. A. Mansfield, Jr., Edward Swazey.

MINERAL HILL MINING COMPANY.

Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund \$0.00 Shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arrey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 3 Commercial Street, Winterport, Me. Supt.

NOROMBEA SILVER MINING COMPANY.

Hampden, Me. Incorporated, Jan., 1880.
Capital stock, \$500,000; Shares, \$5 each; Treasury Fund, \$4,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
WM. H. DARLING, Supt.

OSKOSH CONSOLIDATED MINING COMPY.

Lawson, Colorado. Incorporated under the laws of the State of Maine, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. C. Nichols, Bangor; Treasurer, C. T. Plympton, Boston; Secretary, Samuel P. Johnson, Bangor; Directors—E. C. Nichols, James Adams, John T. Rines, Henry A. Piper, Geo. W. May.

PORTLAND ACTON SILVER MINING CO.

ACTON, Me. Incorporated, 1873.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, \$0.00 Shares.
President, Weston F. Milliken; Treasurer, James L. Backlin, Secretary, Chas. D. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Robbins and W. H. Moulton.
Office of Company, 21 Exchange St., Portland, Me. Supt.

PETIT MENAN SILVER MINING COMPANY.

Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 70,000 Shares.
President, R. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. E. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

QUEEN CITY SILVER MINING COMPANY.

Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, Dr. H. F. Hanson, Bangor; Vice-President, J. S. Ricker, Bangor; Treasurer, Chas. Right, Bangor; Secretary, W. J. Patten, Bangor; Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndner Palmer, J. W. Thompson, George F. Dillingham.
Supt.

ROBERT EMMETT SILVER MINING CO.

Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, Shares.
President, H. Whiting, Ellsworth; Treasurer, A. A. Bartlett, Ellsworth; Secretary, George A. Parker, Ellsworth; Directors—Henry Whiting, Marcus Mullian, James F. Davis, Guy Mullian, A. A. Bartlett.
P. MULLAN, Supt.

RIVERSIDE MINING COMPANY.

Camden, Me. Incorporated, _____
Capital, \$500,000; Shares \$5 each.
President, Wm. B. Ames; Treasurer, J. Henry Farless; Secretary, Geo. H. M. Bartlett; Directors—Wm. B. Ames, J. Henry Farless, J. P. Bridge, W. Upson, John C. Jones, Frederic R. Page.
FREDERIC R. PAGE, Supt.

STOVER HILL COPPER MINING COMPANY.

Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, \$0.00 Shares.
President, J. S. Ricker, Bangor; Treasurer and Secretary, Wm. P. Hubbard, Bangor; Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Langdon, Bangor; Melvin Freble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY.

on the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Richards.
E. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY.

Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, \$0.00 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.

TWIN LEAD COPPER MINING COMPANY.

Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President—David Bugbee, Bangor; Vice-President, Frank P. Wood, Bangor; Treasurer, John S. Jenness, Bangor; Secretary, John K. Mason, Bangor; Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY.

On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, H. S. Grant, of Boston, Mass.; Chas. B. Lewis, Geo. E. Harrington, W. E. Connor, J. Foster Morse, C. T. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.

Hancock, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Biss, Bangor; Directors—Chas. I. Collamore, Alcezo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.

WHITE STAR SILVER & COPPER MINING CO.

Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Hon. H. C. Martin, Brunswick; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, F. H. Clergue, Bangor; Directors—H. C. Martin, J. W. Milliken, James Adams, W. H. Darling, Parilla G. Merrill, F. H. Clergue.

WEST & BOWLE SILVER MINING COMPANY.

Gouldsboro, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, Joseph H. West, Franklin; Treasurer, Hudson B. Saunders, Ellsworth; Secretary, E. Ward F. Robinson, Ellsworth; Directors—J. H. West, H. B. Saunders, E. F. Robbins, John F. Whitcomb, A. R. Devereaux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY.

Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

CITY OF BOSTON COPPER MINING CO.

The mining property known as the "City of Boston Copper Mine," is situated in the centre of the great mineral zone of Copper bearing ore in Blue Hill, Hancock County, Maine. It is the Douglass home farm, of which the property now known as the "Douglass Copper Mining Co." was formerly a part. It is upon the south side of the road leading to Blue Hill village, and the adjoining property upon the west is the "Atlantic Copper Mining Co.," and that upon the east is the "Bluehill Copper Mining and Smelting Co." The dip of the ore channels or veins is to the south, and their course is nearly N.E. and S.W. At the north side of the property the veins are 550 feet in length; toward the south the property rapidly widens east and west, so that when the granite wall upon the south is reached, at about 1000 feet from the northern boundary, the veins are about 1500 feet in length, and their average length throughout the property is about 1100 feet.
William H. Darling of Blue Hill, the present owner of the above described property, offers it for sale upon the following terms:

He proposes to form a joint stock company, under the laws of the State of Maine, said company to have a capital of \$500,000, to be divided into 100,000 shares of par value of Five Dollars each, which are to be forever unassessable. Said W. H. Darling agrees to put into the Treasury of the company 50,000 shares of the capital stock of the company, and nine thousand dollars (\$9,000) in cash; and he offers of the remainder, 45,000 shares for sale at one dollar and eighty-five cents (\$1.85) per share. When 45,000 shares are sold, the company shall be organized, and said Darling agrees to give the company a perfect title to the property and a warrantee deed.

1884

Bucksport & Bangor Railroad**CHANGE OF TIME, JAN. 26, 1880.**

Leave Bucksport.....5.30 A. M. and 1.30 P. M.
Arr. Bangor.....6.45 A. M. and 2.50 P. M.
Leave Bangor.....10.00 A. M. and 7.15 P. M.
Arr. Bucksport.....11.30 A. M. and 8.30 P. M.

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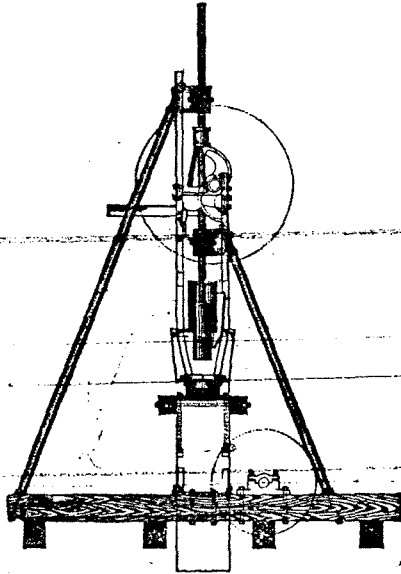
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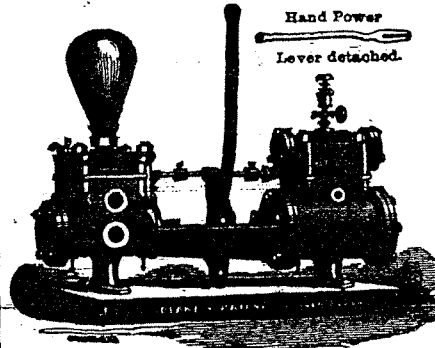
W. H. STEPHENSON. J. L. MCKEEVER.

REFERENCES:

Cashier Suffolk National Bank, Boston.
Cashier Phoenix National Bank, New York.
Cashiers of all National Banks in Portland, Me.
Cashier Second National Bank, Bangor, Me.
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HINCKLEY & EGERY IRON COMP'Y,

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- Fourth—I am a good worker and willing at all times.
- Fifth—I require no rest, as I never tire.
- Sixth—All the food I require is a few drops of oil each day, which keeps me exceedingly nimble.
- Seventh—I have not a single vice or bad habit.
- Eighth—I never ask for a holiday.
- Ninth—I always give satisfaction, no matter how fast I am compelled to work.
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- Eleventh—I have no country cousins or other company.
- Twelfth—I have no particular religion, but am willing to conform to the belief of my employer.
- Thirteenth—I can easily do the work of the largest family.
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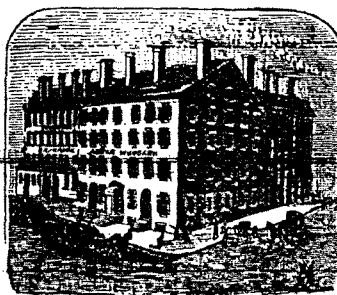
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[Entered as second-class mail matter.]

Vol. I. No. 8.

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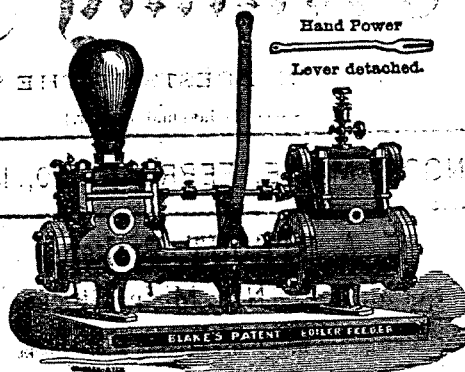
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PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING,
W. F. BLANDING, EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

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Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, FEBRUARY 20, 1880.

A WORD OF CAUTION.

We feel called upon to protest to the utmost of our ability against the practice, now become so common, of organizing companies upon entirely undeveloped properties, and owing out their stocks upon the market to delude or at least bewilder parties who are seeking for legitimate and profitable investments.

No one denies the legal right of a set of men to organize such a company for the purpose of prospecting a property, or of asking the assistance of outsiders in the work, provided the purchasers of the stock are given fully to understand the true condition of things, and that they take their chances with the rest, of finding valuable mineral deposits upon the premises or of sinking their money with the hole in the ground to be filled up again at their expense by and by, but this is by no means *mining*.

It is perhaps natural to a certain class of men who have heard of the slight surface showings which in some localities have lead to the discovery of rich mineral deposits, to see a bonanza in every ledge where a particle of mineral appears in sight. Not having the necessary means to carry on operations, they succeed by their enthusiasm which is contagious and by the glittering specimens they show, in convincing numerous others who, like themselves, imagine "all's gold that glitters," that a short distance below the surface lies untold wealth, and with the example of numerous others before them, conclude that the proper way to get at it is to form a company and issue and sell stock to meet the expenses of development.

This is the history of many of the companies which are now before the public, although not a small number, we fear, are actuated by motives less honorable than the above, but of these we shall have more to say hereafter. It must be apparent to any one possessing a grain of common sense that unless the State of Maine is far richer in minerals than any land yet discovered, but comparatively a small number of these properties can ever become paying investments, nor

can they be fraught with anything but evil to the public at large or the industry which they pretend to represent. What we wish to impress upon the minds of our readers is the importance of making a distinction between companies which are really *mining* companies, and others not rightfully entitled to that name, as in many instances it has not yet been determined whether they have a mine or not. In the one case it is merely a business enterprise, and in the other a species of gambling, or at best a sort of lottery wherein are an unlimited number of blanks and precious few prizes.

One thing which tends to mislead people and draw them into investments of this kind is the respectability of many of the men who figure as officers of these companies. Why men of well known honor and integrity and with a reputation for business sagacity will allow themselves to become the figure-heads of such corporations is one of the mysteries which remain unsolved; but there is the fact before us. We have in mind a prominent man, well known throughout the State, and respected by all who know him, who openly says he has no confidence in any mines in this part of the country, does not believe in them at all and never did, but was induced by some of his friends to accept the Presidency of a mining company. In this case the company happens to be a good one and the property valuable, but that does not affect the fact that he is allowing his name and influence to be used for the purpose of advancing an enterprise which he himself believes to be either a humbug or a delusion.

There are as a rule, but two classes of men who will persist in putting their money into stocks of companies whose sole wealth consists of a ledge of doubtful value and an unlimited amount of paper certificates. With one class—the speculators—we have no sympathy whatever, and nobody cares if, in buying up these stocks for the purpose of selling them again by means of false showings and misrepresentations, they get euchered at their own game; for while there are a greater or less number of fools in every community, some of the New England farmers and others who assist in inaugurating these enterprises are sharper than most people give them credit for being, as many will ere long find out to their cost.

The other class consists mainly of laboring men and clerks upon small salaries who have perhaps accumulated a little money through the savings of years, and having seen large sums realized by others from investments of this nature, cannot understand why they may not do likewise. Herein lurks the great danger to the people of Maine. If they will continue to put their money indiscriminately into stocks of new companies as fast as they make their appearance in the market, new schemes will continue to be floated in upon the tide of popular credulity, and when the bubble bursts as it must sooner or later, devastation and ruin will be scattered far and wide; but if these same companies are let severely alone until the projectors are made to understand that the public require them to show sufficient confidence in their own properties to put their hands in their pockets and make such developments as shall fully establish their value before issuing stock, then, and not till then will mining become placed upon a sure footing and cease to be looked upon with suspicion and distrust.

[From the Chicago Mining Review.]

Production.

The great obstacle in the way of rapid development of the mining country has been the lack of capital.

Money has been sought in various ways, the most common being to stock the mine, form a company, rent an office, pay salaries and sell stock. In a large number of cases, it has been difficult to dispose of stock enough to pay the expenses of selling, and the poor mine has languished.

The result has been that there is stock for sale everywhere and at any price, while the dividend-paying mines are like diamonds in the sand. Not that our mineral deposits are not rich and valuable, not that our ores are hard to treat, not that mining is expensive and gives slow returns, but simply from the want of efficient management.

If mines like the Comstock mines, with ore that averages less than \$45 to the ton, working in deep levels, some down 3000 feet, contending against water and other obstacles in deep mining, employing heavy and costly machinery, can pay dividends amounting to millions, and earn a world-wide reputation for productiveness, why cannot a mine that assays from the grass roots from \$500 to \$1000 per ton, with no expense for pumping or hoisting machinery beyond a whim and a blind horse, produce something besides stock that is large with promises that are seldom realized. Of what value is stock in a mine that will never make any returns?

This matter is all the more culpable because there seems to be no good reason for the present condition of affairs. If the mine is in low-grade ore, and there are years of hard work to be done before things are in shape for profitable work, the case would be different. But in a majority of the cases to-day, where stock in mines is sold, the purchaser is shown rich ores that give very satisfactory assays, and he is assured that the expense of mining is wonderfully low, and that a few shares will be sold to secure money for development. Then the marvellous richness that lies so near will be opened, which will be divided among the fortunate stockholders, and the prospects are that for years this stream of good fortune will continue to flow, bringing wealth and all the blessings the human heart can desire. The matter looks plausible, and we believe that much better results are obtainable than a majority of cases that are shown.

We look for a reaction in this stock business unless better management is shown and better returns come from investments in this direction. Purchasers are becoming more cautious, and are making closer examinations. They will demand that their money shall be used for the improvement of the property they have an interest in. In a word, they will insist that the real object of a mine is the production of ore. Mining must come to this point before it can make its influence felt as it can and ought. The world's need of precious metals demands production. The industries of the nation demand production. The financial interests of our country demand production. The honor and good name of mining demands production, and the time is rapidly approaching when promises, stocks and assays will have no influence, but production will be the measure of the value of a mine, and by this standard it must stand or fall. As in

any other business, worthlessness must fall and be trodden down by real worth and value, and we contend that mines are valuable only in proportion to their production and power to produce. — Production is the corner-stone of permanence.

Dips, Spurs and Angles.

The youthful minor pants for twenty-one,

The statesman pants for office and a haul,

The poet pants for an undying fame.

The tailor only 'tis who pants for all.

'Tis passing strange, but long-headed men never go head-long into speculation.—[Erratic Enrique.

It is a very remarkable fact that iron has to lay in the furnace and stand a grate deal of heat before it is found annealing.

The more "rocks" a man has, the boulder his style.—[Erratic Enrique. And the haughtier his tone.—[Journal of Commerce.

There is probably nothing in this transitory world that yields larger and quicker returns on the amount invested than poking a wasp with your finger to see if he feels well.

A young Bostonian announced that he was going to Leadville to engage in hydraulic mining. "Yes," remarked a friend, "you are going to seek the bubble reputation at the cañon's mouth."—[The Hour.

The following are the products of some of the prominent copper mines for January: Calumet & Hecla, 1,673 tons 940 lbs; Quincy, 98 tons 15 lbs; Osceola, 158 tons 500 lbs; Allouez Tribute Co., 100 tons 165 lbs; Atlantic 141 tons 1915 lbs.

The comparative force of gunpowder and dynamite was discussed by two miners at Tunka, Cal. They agreed, as a test, to explode certain quantities of the substances under two planks, the friend of gunpowder to stand on the dynamite plank and the friend of dynamite on the other. The trial was made in the presence of an interested crowd of spectators. It resulted in a broken leg for the man who was lifted ten feet into the air by the dynamite, and uncounted bruises for the one whom the gunpowder threw against the trunk of a tree.

It may not be generally known that we have, in the nickel five-cent piece of our coinage, a key to the tables of linear measures and of weights. The diameter of this coin is 2 centimeters and its weight is 5 grammes. Five of them placed in a row will, of course, give the length of the decimeter, and two of them will weigh a decagramme. As the kiloliter is a cubic meter, the key to the measure of length is also the key to measures of capacity. Any person therefore, who is fortunate enough to own a five cent nickel may carry in his pocket the entire metric system of weights and measures.—[Scientific American.

A few days since an elaborate article was published in one of our papers warning the public against some of the Maine mining projects, but the writer confined himself to generalities. If he knew facts it would have been more convincing than theories to have pointed them out. One fact is worth a thousand fancies. Any enterprise may be con-

demned in general terms, as several writers condemned the empts to lay Atlantic cables, and build steamers to carry freight, and many other great works that appeared doubtful to the public at large and of questionable utility at the time, but the value and success of which were clear to the minds of those who originated them. It is too early yet to condemn the mining projects of Maine or any other place, simply because many of the California mining schemes were originated by knaves.—[Boston Traveller.

The electric light is being utilized in mining in California by the Excelsior Consolidated Company in the gravel mine at Mooney's Flat, Nevada County. Work is carried on in three sets of claims, operated in rotation, with two large monitors located in each set, both day and night, the Company having lately procured a powerful electric machine. The electricity is generated by friction, and the motive power is produced by about thirty inches of water, which is taken from the main water pipe, and after being utilized is returned, so that no waste or loss occurs. The electric current is carried to the point where the light is desired by large-sized copper wires suspended similar to telegraph wires. The current is made to leap a short distance from one electric candle to another to complete the circuit. It is this continuous leaping which gives out the bright light which illuminates the mines almost equal to sunlight. Other companies intend to introduce this innovation. The North Bloomfield Mine is also about to put in the electric light.—[San Francisco Post.

The Virginia (Nev.) Enterprise of Jan. 25th prints the following conversation, illustrating how everybody on the Pacific slope speculates in mining stocks:

"An' how air ye the mornin', Mrs. Murphy?"

"Ruined intirely, bless God. It's bad you're lookin' yer-self, Mrs. McFadden.

"Ye may well say that. Not a wink o' slape I've had these three nights.

"Were ye in the Lady O'Kelley, dear?"

"I was. It took the savins of six months. How was it wid you, darlint?"

"I've clane lost all the few dollars I had.

"It's all along wid the dthrill hole.

"And the sa-alt.

"Och! the thaven spalpeens.

"It may not have been right, dear, but from the first prospect I was prayin' for that mine and for Captain O'Bryan, an' all the time I ought to have been selling short.

"Och! what ean prayin' do agin dthrill holes and sa-alt?"

"An' poor Mrs. Mulrooney, she's in it.

"Wid her twins! Och! murder!

"An' Mrs. McDuffey, she's sa-alted.

"With her auld man sick these three months?"

"An' there's wapin' and walun' at Dougherty's.

"God help us!"

SCENES AT BANGOR POLICE COURT.

Characters—His Honor, with severe dignity upon his judicial countenance, several officers, and three dilapidated individuals, with the appearance of having just escaped from under a burnt lard barrel.

"Bring up the prisoners," cried His Honor in his most

dignified tone. Officer pushed forward a prisoner—with "No. 1 drunk your Honor."

"Prisoner at the bar, what is your name?"

"Philip Thompson, your Honor.

"What is your occupation?"

"Your Honor, I read the stars by night, and by day unfold the future to inquiring mortals."

"Ah! a fortune teller," said His Honor, while a bland smile chased his official wrinkles from his face. "I do something in that line myself. I wrestled with the stars last night, and Mr. Philip, you are an entire stranger to me—never saw you in my life, but I can unfold your future—I can tell you just where you will eat and sleep for the next 90 days. Officer remove the prisoner—90 days in the county jail. Next."

No. 2, was pushed up with the information that he was drunk and disorderly.

"What is your name?" inquired His Honor.

"Thomas Collins, of Portland."

"Well, Thomas Collins, of Portland, what is your business in Portland?"

"Your Honor, I am a plenipotentiary from the Hon. Neal Dow, and last night while examining into the working of the Maine liquor law by gas light, I was seized by your minion and ruthlessly dragged to the lock-up."

"Ah! I see Mr. Collins, you are a distinguished visitor from Portland, allow me to welcome you to Bangor on behalf of our citizens, consider yourself our guest for the next sixty days—you will be accommodated with a room at the County Hotel, and your meals will be furnished in your room. Au revoir, Mr. Collins. Next."

"No. 3 is a drunken tramp," vouchsafed the officer, and No. 3 answered to the name of Joseph Randall.

"Thirty days in the county jail," said His Honor.

"But," cried Mr. Randall, "I am insane, you cannot commit an insane person!"

"We will see about that," said his Honor. "Where is your proof?"

"Here it is," said Mr. Randall. "I have got the 'mining fever,'" and he exhibited divers rocks and stones.

"Mr. Randall," said His Honor, solemnly and sadly, your proof is conclusive, you are at liberty to go, and" (sternly to the officer) "don't you bring any more of these mining fellows here, this is not an insane hospital."—[Com.

The Calumet and Hecla.

The Calumet and Hecla product of copper in 1879, was the largest ever produced in one year, and amounted to 16,329 tons of mineral. The working plant of this mammoth concern, both underground and on the surface, since the huge proportions and lasting qualities of the mine have become assured facts, has received close and constant attention from the management, and is gradually being perfected in order to meet the demands required in handling the great quantity of rock taken out daily, and its subsequent treatment and preparation for smelting. As the underground evidence is of a character to admit of no reasonable limit being put on the life of the mine the improvements made in this direction are of necessity of the most permanent character and intended to last for years. During the past year

considerable progress has been made in the betterment of the hoisting and pumping machinery and protecting it against loss from fire, etc. The stamp mills have also been made more efficient. Advancement in improving the working appliances of this giant industry is still the order of the day, and twelve months hence the Calumet and Hecla will probably be one of the best equipped mines in the world.—Portage Lake Gazette.

Personals.

T. H. MANSFIELD, of the Portland Mining Exchange, was in the city on Thursday.

MR. FRANCIS WORCESTER, JR., of the Home, made a trip to Boston during the past week.

B. O. CUTTER, Esq., Superintendent of the Blue Hill, has been summoned to California as witness in a law suit.

PROF. W. F. STEWART on Saturday last returned to Bangor from Portland. He early this week made a short trip to Blue Hill.

MR. CHARLES H. LEWIS and a party of prominent Boston mining men visited the Sullivan mines the latter portion of last week.

MR. GEO. F. GOULD, Secretary of the Deer Isle Silver Mining Company, has been appointed Recorder of the Portland Municipal Court.

MR. C. W. KEMPTON, the well-known mining engineer of Sullivan, made the MINING JOURNAL a call on Friday last. He was on his way to Boston and was accompanied by his wife.

MR. ADAMS of the Maine Mining Exchange of Boston and MR. FROST of the Boston Globe have returned from an extended examination of the leading mines of Hancock County.

COL. WM. H. DARLING has telegraphed to TIMOTHY O'CONNELL of Nevada to come at once to Maine and take charge of operations at the City of Boston mine at Blue Hill. PROF. STEWART recommends MR. O'CONNELL as one of the best mining superintendents on the famous Comstock lode.

Theory of Metalliferous Veins.

BY PROF. JOSEPH LE CONTE.

Our knowledge of the conditions under which, and the chemical process by which, fissures have been filled with mineral matter, is yet, unfortunately, very imperfect. Many vague and crude theories have been proposed. Some have supposed that they have been filled in the manner of dikes and granite veins, by igneous injections; others, that these fissures, opening below into regions of incandescent heat, have been filled by *sublimation*, *i. e.*, by vaporization of certain materials and their condensation in the fissures above. Some suppose that electric currents, such as are known by observation to traverse certain veins, have been chief agents in the transference and accumulation of the mineral matter. Still others have thought that great fissures have filled in the same manner as the smaller fissures, and cavities of every kind found in the rocks, *viz.*, by infiltration of soluble matters from the fissure rocks. There is certainly considerable analogy between small infiltrative veins and great fissure-veins in their mode of formation; yet there is a decided difference. The fillings of infiltrative veins are derived, in each part, entirely from the bounding rock on either side.

The fissure is filled by a *lateral secretion* from its walls; the broken rocks heal themselves "by first intention" by means of a plasma oozing from the sides. But great fissure veins derive their contents in each part from *all* the strata to great depths, and especially from the deeper strata. Hence the contents of these veins are far more varied.

OUTLINE OF THE MOST PROBABLE THEORY.—The contents of mineral veins seem to have been deposited from *hot alkaline solutions* coming up through the fissures; in other words, from *hot alkaline springs*. We will attempt to show this first for the *vein stuffs*, especially quartz; and then for the *metallic ores*, especially the metallic sulphides.

VEIN STUFFS.—(1) *They were deposited from solutions.* The *ribbon-structure* and the interlocked crystals suggest at once successive deposition from solution especially as a similar structure occurs in the filling of cavities of all kinds, which could not have been filled in any other way. Quartz is by far the most common of all vein-stuffs. Now there are two varieties of quartz—one having a specific gravity of 2.2, and the other 2.6. The dry way produces only quartz-glass, which has a specific gravity 2.2, while the variety of specific gravity of 2.6 cannot be formed except by the humid way. In fact, this variety, as far as we know, is always produced by slow deposition from solution. Now, the quartz of veins is always the variety 2.6 and therefore was produced by slow deposit from solution. The beautiful crystals so often found in veins could be produced in no other way. We have already seen that *fluid cavities* are a proof of formation by humid process. Now, such fluid cavities are especially abundant in vein-stuffs generally. They are best seen in quartz-vein stuffs, because of their transparency. Not only quartz, but many other minerals found among vein-stuffs are of such nature that it is difficult or impossible to understand how they could have been formed except by the humid way, as they will not stand fusing temperature.

The solutions were hot. Fissures running deep into the interior of the earth could hardly remain empty of water. But from their great depth the contained waters must be *hot*. The solvent power of water, when heated to high temperature under pressure, is well known. Scarcely any substance wholly resists it.

The *fluid cavities* found in quartz and other vein-stuffs are not usually entirely filled, but contains a small *vacuous space*. Such a vacuous space indicates that the inclosed liquid was at high temperature at the time of being inclosed, and has since contracted on cooling. By heating the mineral until the cavity fills and the vacuous space disappears, we ascertain the temperature of deposit. Now, by this process, the temperature of deposit of vein minerals has been ascertained to vary from ordinary temperature even up to 300° and 350°. The invariable association of metalliferous veins with metamorphism demonstrates the agency of heat.

The solutions were alkaline. Alkaline carbonates and alkaline sulphides are the only natural solvents of quartz, the commonest of vein-stuffs. Moreover, when these waters contain excess of carbonic acid, as is almost always the case, they dissolve also the carbonates of lime, baryta, iron, etc., the next most common forms of vein-stuffs. In California and Nevada such alkaline carbonate and alkaline sulphide springs abound, and are daily depositing silica (quartz) and carbonates of lime and of iron, and even in some cases filling fissures.

METALLIC ORES.—There seems no reason to doubt, then, that in most cases at least, vein-stuffs have been deposited from hot alkaline solutions. Now, it is evident, from their intimate association with the vein-stuffs, that the *metallic ores* must have been deposited from the same solutions. The exact nature of the solvent and chemical reaction is still very doubtful. We may imagine many by either of which the deposit might take place.

1. *Metallic sulphides* are by far the most common form of ore, and even when other forms exist, we may in many cases trace

them to sulphides as their original. But metallic sulphides are soluble in alkaline sulphides, and these latter are often found associated with alkaline carbonates in hot springs, as in California and elsewhere. Such waters would hold in solution silica, carbonates of lime, etc., and metallic sulphides, and, coming up through fissures would deposit them by cooling in the fissures. Or, 2nd, alkaline carbonate waters holding in solution silica and lime carbonate for vein-stone, and also containing alkaline sulphide, meeting and mingling in the same fissure with other waters containing metallic sulphates by reaction would precipitate metallic sulphides. This seems to be the reaction by which the inky waters of some of the hot springs of the California geysers are formed. Or, 3rd, the alkaline carbonates still remaining for vein-stone, metallic sulphates, in solution in the same waters with organic matter (and all meteoric waters contain organic matter in solution,) would be reduced to the form of metallic sulphide, which being insoluble, would be deposited!

There are many difficulties in the way of every attempt to place these reactions in a clear and distinct form, but in spite of these difficulties there seems little reason to doubt that great fissures have been filled by deposit from hot alkaline waters, holding various mineral substances in solution. The more insoluble substances reach the surface as mineral springs.

This view is powerfully supported by the phenomena of hot alkaline springs in California and Nevada. The Steamboat Springs, near Virginia City, Nevada, (so called from the periodic eruption of hot water and steam,) come up through fissures in comparatively recent volcanic rock. The waters are strongly alkaline, and deposit silica in abundance. By this deposit the fissures are gradually filling up and forming veins. Some fissures are now partially and some entirely filled. The ribbon structure in some cases is perfect. Moreover, sulphides of several of the metals, viz., iron, lead, mercury, copper and zinc, have been found in the quartz vein-stuff. Here, then, we have true metalliferous veins forming under our very eyes.

Thus, then, there seems no longer any room for doubt that metalliferous veins are actually deposited from hot alkaline solutions coming up through fissures. It is only the exact chemical reaction which is yet obscure. The work of the geologist is all but complete; the problem must now be turned over to the chemist. It may be interesting, however, before leaving this subject, to consider separately the auriferous veins of California, and to apply to them the principles set forth above.

AURIFEROUS VEINS OF CALIFORNIA.—Gold is one of the most insoluble of substances, and the occurrence of this metal in veins has always been regarded as a difficulty in the way of the *solution theory*. The only free solvent of gold is a solution of free chlorine, but this does not exist in nature. Nevertheless gold is known to be *slightly* soluble in the salts, especially the persalts of iron. These salts, especially the sulphates and persulphates of iron, are the probable solvents of gold. There is also a silicate of gold which according to Bischof, is slightly soluble under certain conditions.

There is abundant evidence that the auriferous quartz-veins of California have been deposited from *hot solutions*. These exhibit in many cases the characteristic *ribbon-structure*. They exhibit also the *water cavities* characteristic of deposits from solution, and the *vacuous spaces*, indicating that the solutions were *hot*. By actual experiment, the *temperature* at which the vacuous spaces disappear, and therefore at which the deposit took place, has been ascertained—being 180, 212, 350 degrees, and even more. Again there can be no doubt that the associated metallic sulphides were deposited from the same solution as the vein-stuffs, for they are completely inclosed in the latter. But the gold, as already stated, exists in minute crystals and threads of metal enclosed in the sulphide of iron, and must therefore have been deposited from the same solution of iron. It seems most probable that the gold was dissolved in a solu-

tion of sulphate or persulphate of iron, and that the sulphate was deoxidized, and became insoluble sulphide and precipitated; and that the gold thus set free from solution was entangled in the sulphide at the moment of the precipitation of the latter.

There are some phenomena connected with the occurrence of gold in the iron sulphides of the *deep placers* which seem to prove the truth of this view. The deep placers of California are gravel-drifts in ancient river beds, covered up by lava-flows 100 to 200 feet thick. These placers are worked by running tunnels beneath the basaltic lava until the river gravel is reached. Now, the waters percolating through these lava, flows and reaching the subjacent gravels are *charged with alkali* from the lava. These alkaline waters are also charged with silica from the same source. Hence, the *drift-wood* of these ancient rivers has all been silicified by these siliceous waters. The gravels are also in many places cemented by the same material.

These percolating waters have evidently contained *sulphate of iron*; for in contact with the silicified wood is often found iron sulphide. Thus, while the wood decayed, it was partly replaced by silica and partly by iron sulphide produced by deoxidation of the sulphate by organic matter. The gravel has also in some places been cemented by iron sulphide reduced from solution in a similar way. Now, both in this petrifying and in this cementing sulphide of iron, is found (by solution in nitric acid) gold; sometimes in *rounded grains*, and therefore simply enclosed *drift-gold*; but also sometimes in *minute crystals and threads*, exactly as in the sulphide of the undecomposed quartz-vein. Evidently, this gold has been deposited from a *solution of sulphide of iron* at the moment of the reduction of the latter to a sulphide. The process was probably as follows: Percolating water oxidized iron sulphide and took it into solution as sulphate. This solution coming in contact with drift-gold dissolved it, but, subsequently, coming in contact with decaying organic matter, was again deoxidized and deposited as sulphide; and the gold crystallizing at the same moment is enclosed. If these waters had circulated through a fissure, we would have had an auriferous quartz-vein. In fact, this may be regarded as a sort of horizontal vein.

We conclude, therefore, that metalliferous veins have been deposited from hot alkaline waters, circulating through fissures, and that in the case of auriferous veins the solvent of the gold was sulphate of iron, and the sulphate was deoxidized by organic matter in the same solution, the gold and the iron crystallizing at the same moment, one as metal, the other as sulphide.

Gold is sometimes found in pure quartz without the sulphide of iron. In these cases it may have been in solution in alkaline water as silicate of gold, as suggested by Bischof. There is a silicate of gold which may be made by artificial means. It is slightly soluble under certain conditions.

Blanchard Slate Company.

This company was incorporated in December last, under the laws of Maine, with a capital of \$200,000 divided into 40,000 shares of a par value of \$5 each, and a treasury reserve of 4,000 shares. Following is the list of officers: A. C. Hamlin, President; H. E. Hamlin, Secretary; Isaiah K. Stetson, Treasurer; A. C. Hamlin, and Charles Hamlin of Bangor, Wm. D. Swazey of Bucksport, Hanson Gregory, Jr., of Rockland, and C. A. Packard of Blanchard, Directors.

The property of the Company consists of 124½ acres of land in fee simple, situated at the present terminus of the Bangor & Piscataquis Railroad, in the town of Blanchard, in the State of Maine. Also, all the right to the Slate on the Huff lot, of 100 acres, adjoining the above land, on the northeast corner. Upon these lands three great veins or belts of Slate have recently been discovered.

They have been estimated at 40 feet, 57 feet and 70 feet in width, extending from the Huff lot down over the hill across

the Railroad, to the Piscataquis river, a distance of a mile or more.

The quality of the slate thus far determined by external exploration and blasting below the frost line, is very superior, if not of the very highest grade known in this country. The quantity is immense, and there is undoubtedly enough to furnish quarries for several large active companies.

The facilities for transportation are unsurpassed in the State, as the county road to the depot passes directly over it, and the extension of the Railroad to Moosehead and to the Canada line, will pass directly over the lower part of the belt.

The completion of this railroad will open the long desired avenue to the markets of the Great West, where the Maine slates are in great demand, and hitherto debarred by want of cheap transportation. At the present time the Piscataquis Railroad affords easy carriage to the port of Bangor, whence shipments may be made to domestic and foreign markets accessible by water.

The situation of the belts of slate on the side of the mountain is admirably adapted for extensive operations. The facilities for drainage and for dumping waste material, are unsurpassed in the country. The tract of land is well wooded, and will not only afford timber enough for mining purposes, but will also furnish a large supply of fuel to the Railroad Company, and add considerably to the source of revenue.

Darling Silver Mining Co.

There are so many conflicting stories afloat with regard to the property of this company that it is well-nigh impossible to get at the actual facts of the case. We shall soon, however, be in possession of information which will enable us to speak with certainty in regard to it, and our readers may be assured they will receive the benefit of our investigations. Meanwhile, assuming that the company have acted honorably and in good faith, the present state of their affairs may well serve to illustrate a point made in our editorial columns, and the sooner a stop is put to this business of organizing a mining company and selling stock, and endeavoring to find a mine afterwards, the better will it be for all parties concerned.

"It is the Cat."

The Orient Silver Mining Company are engaged in sinking a shaft upon a vein in the town of St. Albans, and have already taken out some very good looking ore. We learn from gentlemen who recently visited the mine, that the property of the company, while embracing a considerable extent on the vein (we think about 90 rods) is but about 4 rods in width, and the dip of the vein as shown in the shaft, which has reached a depth of 36 feet, is such as to carry it outside the company's line at a distance from the surface of less than 150 feet. Comment is unnecessary.

LODES, LEADS AND VEINS.

[We earnestly request superintendents of mining operations to send in from time to time such information and actual facts as shall assist in showing up their properties, together with specimens of ores, maps, etc., which will be on exhibition in our office. We wish to make this department as complete as possible and in order to do so, we must necessarily have the co-operation of all who have mining works in charge. It is of the utmost importance, however, that correspondents should deal with actual facts rather than probabilities.]

QUEEN CITY.—The shaft has been deserted for the present. A blast in another place has opened to view some good looking ore.

HARRINGTON.—The shaft is down about 35 feet and nearly tim-

bered. Mr. Jeff Seavey a practical miner, will continue to act as superintendent until the arrival of Mr. Cahill from Nevada.

NOROMBEA.—Although the shaft of this company is down but about 12 feet, a large quantity of rich ore is now on the dump and more continues to be thrown out at every blast. A large crew of men are engaged and work is progressing rapidly.

HAMPDEN.—The Hampden and Duntun companies have consolidated under the name of Hampden Silver Mining Co., with a capital of \$1,000,000. The shaft has reached a depth of 90 feet, and is substantially timbered to within ten feet of the bottom. Work is suspended pending the arrival of machinery which is on the way. From the direction of the various stringers at the bottom of the shaft, the Superintendent is led to believe that the main vein will be encountered within a few days from the time work is again commenced.

LAWRENCE.—Good ore is being taken from the shaft which is down about ten feet. A trench has been dug for a distance of several hundred feet for the purpose of removing the surface water which has been somewhat troublesome. Capt. Gray who is superintending operations is pushing matters as rapidly as possible, and a large blacksmith shop has already been erected.

CORINNA.—The shaft is about fifty feet down. The timbers for hoisting works are being put in. The rock from the shaft will be put on cars and then dumped.

SNOW.—The Snow Silver Mining Co., of Bucksport is now organized and ready for business. The officers are: Capt. J. H. Hill, President; James Emery, Vice President; A. H. Genn, Treasurer; C. J. Cobb, Secretary; J. H. Hill, A. H. Genn, James Emery, Richard Snow, Howard Swazey, John Snow, E. P. Hill, Directors, all of Bucksport. The Snow mine is situated about four miles from Bucksport Village on the old Snow homestead. A shaft has been sunk about fifteen feet, the excavations growing richer as the shaft proceeds downward. Two recent assays of ore from this mine gave 17.2 and 17.8 ozs. silver per ton. The company will proceed with all possible dispatch to develop the mine. A shaft house 16x24, a powder house and blacksmith shop are now in process of erection, and in a few days a gang will be at work day and night. Capt. Richard Snow, will for a time act as Superintendent with a practical miner for foreman. The company will shortly offer for sale a limited amount of treasury stock. Investors are respectfully invited to call and examine the property and the officers of the company will afford every facility for so doing.

FRANKLIN.—The Franklin Silver Mining Company was organized in Ellsworth on Monday last. The officers are, President, E. H. Greely; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors, E. H. Greely, N. P. Doe, Edward Mullan, Richard Laffan and Jeremiah Wooster.

McFARLAND.—We have received a very handsome specimen of silver ore taken from the shaft of the McFarland, and which was broken off from a mass weighing upwards of one thousand pounds, thrown out at one charge on Monday of the present week. The Secretary, Mr. Cushman, states that the whole rock will average as rich as this sample. The prospects of this mine are certainly very flattering.

WAUKEAG.—We have seen the present week some magnificent specimens of ore taken from the shaft which has now reached a depth of 123 feet, and is progressing at the rate of a foot a day. Ore is now being taken out through the drift from the Sullivan shaft, at the 85 foot level.

SULLIVAN.—The up-river drift at the 85 foot level has reached the line of the Waukeag, and drifts have been started at the 130 foot level, on the northerly side to a distance of twenty feet, and on the southerly or down-river side the workmen have advanced twenty-five feet where they have already struck fine ore. The new hoisting machinery and air compressors will

shortly be in position, and when in operation the facilities for working will be unsurpassed, and the company expect to sink the shaft at the rate of 100 feet every 40 days.

ASHLEY.—The superintendent of the Ashley Silver mine, Mr. Wendell Horne, called Wednesday and made a verbal report on the condition of the company's mine and works. The shaft is now down 92 feet, 50 feet of which is timbered to double compartments. The main vein was about 10 inches at the surface, and at the 60-foot level had widened to 3 1-2 feet. Between this point and the 70-foot mark a slight dip carried the vein outside the shaft, which is vertical. The shaft is being sunk at the rate of about nine inches a day, and the 100-foot level will be reached the last of the coming week. A drift will then be run, and the vein will probably be reached and cross-cut at from 15 to 20 feet. Lateral drifts may then be run along the foot wall. In the bottom of the shaft a clay seam about 18 inches wide, with a 2-inch vein of rich ore in the center, has come in on the same dip and trend as the main vein. Depth will determine whether this is a new vein or a feeder. The mine is equipped with steam hoisting works, and the old pumps are being replaced by new ones.—[Boston Advertiser.

MORANCY.—The Morancy Mining Company, of Sullivan, have secured the services of Mr. F. W. Crosby as Superintendent. Mr. Crosby is a mining engineer of large experience, and was formerly Superintendent of the North Barrier and Carbarrus Gold Mine and the Judd & Crosby Silver Reduction Works at Georgetown, Col. Under his efficient management we may expect to see work at the Morancy pushed with rapidity.

DICK & WILLIAMSON.—At a meeting of the Dick and Williamson Mining Co. held at Calais, Feb. 3, 1880, the following officers were chosen for the ensuing year; President, S. B. Pool of Calais; Treasurer, John Wetherbee of Boston; Secretary, Stephen H. Dick of Letete, N. B.; Directors, S. B. Pool, Thaddeus W. Dick, Isaac Williamson, John Wetherbee, Edward H. Balkham; S. B. Pool Disbursing Agent. The capital stock of the company is \$100,000, divided into 100,000 shares of the par value of \$1 each, six-tenths of which is set aside as a working capital for the development of the mine.

The mine is located in the parish of Le Tete, at St. George, N. B., about 25 miles below Calais, and 12 miles from Eastport. The veins are a direct continuation of those of the Mascarene Mining Co., about a mile distant, and assays of the surface ores give \$40 silver per ton, with some gold.

BISBEE.—The Treasurer of the Bisbee Copper Mining and Smelting Company reports that the company is completely out of debt, that it has fifteen hundred dollars cash and sixteen thousand shares of stock in the treasury. The Treasurer has stopped the sale of treasury stock for the present being fully satisfied that before the company will need money the stock which has been selling at one dollar per share will be worth very much more than that price. The working shaft has been sunk about fifty-five feet, and the Superintendent reports that he is now taking out very rich copper ore, together with some silver. The object of the company has not been to make a show to sell stock, but to do permanent work which shall be useful in the ultimate working of the mine. Hence they have sunk a perpendicular shaft outside of the vein of ore to strike the lode at a depth of about one hundred feet. The rich ore now being taken out is found on the south side of the shaft next to the vein. This vein of ore shows very handsomely on the surface where it is about fifteen feet wide. In sinking the shaft a second vein of ore was struck about six feet wide, and as the dip of this vein is two inches to the foot the shaft passed through it in going down about thirty-six feet, so that now there is a vein of ore just south of the shaft, while two large veins carrying rich ore are just coming in on the north side of the shaft. The Bisbee property contains about fifty acres of land, being bounded south by the road, having 85 linear feet of ore veins and having a water front of 64 rods on Third Pond. It is so elevated as to have the best of drainage, no water except a very little from the surface having yet ap-

peared in the shaft. The shaft is being pushed as fast as it possibly can be both by night and day crews, and steam hoisting works will soon be erected and steam drills used to facilitate the rapid development of the mine, and the company are confident that the property will be managed as it has hitherto been under the wise care of Mr. Bisbee, the President, with the strictest economy consistent with its rapid development.

STOVER HILL.—Work is suspended for a few days, as the contract for sinking the shaft 100 feet has been completed. The company will resume operations on Monday next.

YOUNG HECLA.—A shaft is in process of sinking. Superintendent Duff, of the Twin Lead, is in charge of the work.

TWIN LEAD.—Supt. Duff was in the city on Wednesday. He reports the shaft 65 feet in depth. Some very handsome ore has been found. Considerable nickel is mingled with the copper. The buildings are in process of erection. The shaft house is 27x45 feet in size and from the centre to the peak of the building is 32 feet. A whim to hoist with will at once be put in.

DOUGLASS.—The work in the shafts continues and the ore looks splendidly.

BLUE HILL CENTRAL.—The Blue Hill Central Copper Mining Company was organized in this city on Saturday last. The Capital is \$500,000, divided into 100,000 shares of a par value of \$5 each. The officers are President, S. R. Prentiss; Vice President, Manley G. Trask; Secretary, S. P. Johnson; Directors, S. R. Prentiss, Manley G. Trask, Melville Preble, John S. Jenness, M. C. Marshall, L. A. Knowlton and N. M. Matthew.

TRIO.—The lumber for the buildings has been hauled to the grounds. The club stock is to be sold for 75 cents per share. One third of the stock is to be placed in the treasury.

WHITE STAR.—Several blasts have been made and some good ore of copper has been taken out.

CITY OF BOSTON.—The shaft is being sunk. It is expected that the Douglass vein will be struck at a depth of about 40 feet. A day and a night crew are being employed.

SWAZEY.—The property east of the Favorite Copper Mining Company at Blue Hill is to be put upon the market and the company to be organized will be known as the Swazey Copper Mining Co.

EUREKA.—The Eureka Mining Company will be organized at Blue Hill on the 24th. The property embraces 70 acres of the George Gray farm lying west of the Douglass.

FAVORITE.—The Favorite Copper Mining Company of Blue Hill was organized at the Maine Mining Exchange on Wednesday last. The capital is \$500,000 divided into 100,000 shares of a par value of \$5 each. The officers are President, Addison E. Herrick of Blue Hill; Vice President, Harrison A. Tripp of Blue Hill; Treasurer, Henry B. Darling; Secretary, Henry I. Billings; Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, Eugene M. Hersey and I. S. Emery.

LEBANON ACION.—This company was recently organized at Portland, with the following list of officers: President, H. J. Chisholm; Treasurer, A. P. Leighton; Secretary, Daniel F. Emery; Directors, John Q. Twitchell, Stanley T. Pullen, W. H. Miliken, D. F. Emery, Jr., Dr. S. C. Gordon, Hugh J. Chisholm.

CARROLL.—The Carroll Silver Mining Company has been organized in this city. The officers are President, Geo. F. Dillingham; Treasurer, Porter Nealley; Secretary, F. H. Williams. The property of the company is at East Wakefield, N. H., adjoining the Mineral Hill.

HAVILAND.—The Haviland Copper Mining Co. was organized in this city Monday afternoon with the following officers: President, Geo. Burnham, jr.; Treasurer, Richard O. Conant; Secretary, Geo. S. Winn; Directors, Geo. Burnham, jr., Richard O. Conant, Davis

W. Coolidge, Hiram T. Plummer, Nathan Cleaves, Edward L. O. Adams, all of Portland; and F. P. Haviland, of Waterville.

The capital is \$500,000; par value, \$10. This company has a shaft down 240 feet, with 500 feet of drifts; have two copper veins open, and last Saturday they struck the main vein. New machinery will be put in at once.—[Portland Press.

Nuggets.

A steamer is to run daily next summer between Blue Hill and Bar Harbor.

Bangor parties have purchased the property adjoining the Western Union Mine in Hancock.

A bill to incorporate the Maine Consolidated Mining Company of Portland has been presented to the State Legislature.

Mr. C. J. Hall, of Belfast, has found several veins of copper and silver on Hard Wood Island, situated at the mouth of Union River Bay.

A bill has been presented to the Maine Legislature to incorporate the Gardner Valley Copper Mining Company with a capital of \$600,000.

A handsome bulletin board giving the result of the auction sales at the Maine Mining Exchange in Boston has been placed at the Board of Trade building in that city.

A gentleman is at present working a molybdenum mine not many miles from Ottawa. It is used for dyeing purposes and is worth \$1 dollar per pound.—[Sherbrooke Examiner.

A company has been organized to work a silver mine in Annapolis County, specimens from which have been tested and promise a large yield of pure silver.—[Sherbrooke Examiner.

The first election of officers of the Owl's Head Silver Mining Company was held yesterday, with the following result: True Pierce, President; L. F. Sargent, Secretary and Treasurer.—[Rockland Courier.

The new Blue Hill mining company, in which so many Belfast citizens are interested, will be organized in this city next week. Messrs. L. A. Knowlton and Geo. B. Ferguson have returned from Blue Hill, where they took a deed in trust for the Belfast subscribers to the stock.—[Belfast Age.

A company is being formed in Portland under the name of the Bullion Mining and Milling Company. Their property consists of six hundred linear feet of the Acton lode. It is proposed to organize with a capital of \$150,000 in \$10 shares, one-third of which are to be set aside as a working capital.

The dwelling house occupied by Superintendent Horne of the Ashley mine at Sullivan, was entirely destroyed by fire last week. The new fire buckets of the Milton Co. had just arrived the day before and the workmen put them to good use, forming a line and succeeding in saving the barn.

The Granite State Mining Company have inaugurated active operations. The mine is located in New Hampshire, near the city of Keene. Mr. Milleson, manager, has been down there for the past six weeks superintending the erection of the shaft-house, boarding house and other buildings. Three months' supplies are now on hand, and drills, powder, etc., on the way.

The Oldtown correspondent of the Commercial says: Some interest has been aroused by the discovery of gold-bearing quartz in the south part of Greenfield; the surface rock assaying \$300 to the ton. It is thought by some experts that a vein of gold quartz exists in Milford, and runs thence westerly across

Penobscot at Veazie Falls, terminating near the Stillwater River.

The mining fever has broken out in this town. Every person who owns a farm is asking fabulous prices for it, especially if there is the smallest prospect of its containing minerals. Some good-looking specimens have been taken from a farm near the Neck, and I understand there will be a company formed

to further develop its resources.—[Vinalhaven Cor. Rockland Courier.

A meeting looking to the immediate organization of the Maine Mining Exchange with a regular board of officers and daily auction sales was held at the Bangor Mining Exchange Monday afternoon. I. S. Emery, Esq., was elected temporary chairman, W. F. Seavey, Esq., was elected Secretary, and John R. Mason, John S. Jeanness and W. F. Seavey were elected a committee to revise the by-laws of the New York Mining Exchange for the Maine Mining Exchange and report at an adjourned meeting on Saturday next at 3 P. M.

We learn that exceedingly promising discoveries of silver ore have been made in the town of Trescott, in the vicinity of the famous Lubec mine. The Lubec ores contain large quantities of zinc which has hitherto been considered a drawback, but more recent methods of treatment have removed the difficulties arising from this source, and preparations are being made to resume work upon a much more extensive scale. The Trescott property, however, shows scarcely any zinc. The surface showings are very flattering, and the work of development will be at once commenced.

M. H. Kiff of Vinalhaven has discovered on the land of Samuel Young on the west side of Crockett's River, a vein which he believes to be a true fissure (having traced it for more than a thousand feet) bearing gold and silver in sufficient quantity to warrant further explorations. He proposes to sink a shaft to the depth of ten feet, and if assays then give as good results as is anticipated, will organize a company to operate on the property. There are several other places in the vicinity where gold and silver have been found in small quantities in the surface rock, and valuable discoveries are anticipated in the spring.

Those who have recently visited the mining districts in Maine agree in estimating that not less than 3000 men are now employed in and about the mines and prospects. In the town of Blue Hill about 600 are at work, while within a radius of ten miles of that town about 500 more are to be counted. In and about Sullivan, Gouldsboro, Cherryfield and Hancock fully 1000 men are mining, while 550 is the estimate for the Acton district. North and west of Bangor, in Washington county and elsewhere where mineral lodes are being investigated, prospected and worked, the number is large and daily increasing. This is a fortunate circumstance for Maine, as her lumber interests have been on the wane, and these men, who would have been idle during the winter, have been employed as miners from \$1 to \$1.50 per day.—[Boston Advertiser.

What looks like a practically inexhaustible supply of emery ore has been discovered just south of Peekskill, on the Hudson. The discovery is regarded as one of the greatest importance, from the fact that the metal, in a sufficiently pure state to make it marketable, is found in only one place in the United States, near Chester, Mass., though beds of Corundum containing emery have been found in North Carolina, Georgia and Montana. The Chester beds are said to be running out, and in that case dependence would have to be placed entirely upon shipments from Naxos, an island in the Grecian Archipelago, and from the territory near Ephesus.

It is stated positively that severe tests have proved the emery found in Westchester county to be equal to the best Naxos or Turkish article. The beds are not more than three miles from the Hudson. It is related that the property owners in the neighborhood, who are ignorant of metallurgy, have for some years mistaken this emery for iron ore, and have lost money in attempts to make iron from it. About a year ago a Frenchman named Bertram happened to examine the deposit and discovered its real character. He imparted his knowledge to a number of persons of New York, who have secured possession of the entire beds, which cover a tract of about 25 hundred acres. The quantity of the ore in these new beds is said to be sufficient to supply the demands of this country for a century.

Closing Prices of San Francisco Mining Stocks, FOR THE WEEK ENDING TUESDAY, FEB. 17, 1890.

NAME.	Wed.	Thur.	Fri.	Sat.	Mon.	Tues.
Alpha	9	9	9	4	4	4
Alta	4	4	4	4	4	4
Argenta	1	1	1	1	1	1
Bechtel	1	2	2	2	2	2
Belcher	11	11	11	11	10	10
Belvidere	1	1	1	1	1	1
Belle Isle	1	1	1	15-16	29-32	29-32
Best and Belcher	9	9	9	9	9	9
Black Hawk	27-32	13-16	13-16	13-16	13-16	13-16
Bodie	9	9	9	8	8	8
Boston Con.	1	1	1	1	1	1
Bullion	4	4	4	4	4	4
Bulwer	9	9	9	9	9	9
Caledonia	1	1	1	15-16	29-32	13-16
Caledonia B. H.	3	3	3	3	3	3
California	6	6	6	6	6	6
Chollar	4	4	4	4	4	4
Confidence	4	4	4	4	4	4
Con. Pacific	4	4	4	4	4	4
Con. Virginia	4	4	4	4	4	4
Dudley	4	4	4	4	4	4
Eureka Con.	16	16	16	16	16	16
Exchequer	2	2	2	2	2	2
Golden Terra	14	14	14	14	14	14
Gould & Curry	5	5	5	5	5	5
Grand Prize	1	1	1	1	1	1
Goodshaw	7-16	13-32	13-32	13-32	11-32	13-32
Hale & Norcross	6	6	6	6	6	6
Hillside	11-13	1	1	1	1	1
Imperial	21-32	19-32	19-32	19-32	19-32	19-32
Independence	13-16	1	1	1	1	1
Julia Con.	1	1	1	1	1	1
Justice	2	2	2	2	2	2
Jackson	3	3	3	3	3	3
Lady Washington	13-16	13-16	13-16	27-32	13-16	13-16
Leeds	13-32	13-32	13-32	13-32	13-32	13-32
Leopard	5-16	5-16	5-16	5-16	5-16	5-16
Leviathan	13-16	13-16	13-16	13-16	13-16	13-16
Martin White	2	2	2	2	2	2
Mammoth Mine	1	1	1	1	1	1
Manhattan	17	17	17	17	17	17
Mexican	13-32	13-32	13-32	13-32	13-32	13-32
McClinton	13-32	13-32	13-32	13-32	13-32	13-32
Mono	8	8	8	8	8	8
Northern B. H.	16	17	17	14	16	16
North Bonanza	9-16	4	4	4	4	4
Noonday	4	4	4	4	4	4
North Belle Isle	16	16	16	16	16	16
Ophir	16	16	16	16	16	16
Overman	6	6	6	6	6	6
Potosi	11-16	11-16	11-16	11-16	11-16	11-16
Raymond & Ely	11-16	11-16	11-16	11-16	11-16	11-16
Real del Monte	1	1	1	1	1	1
Savage	6	6	6	6	6	6
Scorpion	2	2	2	2	2	2
Seg Belcher	2	2	2	2	2	2
Sierra Nevada	25	20	22	22	22	22
Silver Hill	1	1	1	1	1	1
Silver King	7	7	7	7	7	7
Syndicate	1	1	1	1	1	1
So. Bulwer	1	1	1	1	1	1
So. Noonday	1	1	1	1	1	1
Tloga	3	3	3	3	3	3
Tip Top	4	4	4	4	4	4
Tuscarora	6-32	6-32	6-32	6-32	6-32	6-32
Union Con.	36	34	35	35	34	35
Utah	3	3	3	3	3	3
Wales	3	3	3	3	3	3
Yellow Jacket	9	9	9	9	9	9

Closing Prices at New York Mining Exchange,

FOR EACH DAY OF THE WEEK ENDING TUESDAY, FEBRUARY 17, 1890.

NAME.	Wed.	Thurs.	Fri.	Sat.	Mon.	Tues.
Amer. Flag	2 00 2 10	2 00 2 10	2 00 2 10	2 00 2 10	2 00 2 10	2 00 2 10
Bechtel	99 1 05	99 1 05	99 1 05	99 1 05	99 1 05	99 1 05
Belle Isle	99 1 05	99 1 05	99 1 05	99 1 05	99 1 05	99 1 05
Bodie	51 52	51 52	51 52	51 52	51 52	51 52
Buckeye	51 52	51 52	51 52	51 52	51 52	51 52
Bulwer	3 60 3 85	3 60 3 85	3 60 3 85	3 60 3 85	3 60 3 85	3 60 3 85
California	3 60 3 85	3 60 3 85	3 60 3 85	3 60 3 85	3 60 3 85	3 60 3 85
Con. Pacific	3 75 3 90	3 75 3 90	3 75 3 90	3 75 3 90	3 75 3 90	3 75 3 90
Con. Virginia	3 75 3 90	3 75 3 90	3 75 3 90	3 75 3 90	3 75 3 90	3 75 3 90
Dahlonaga	18 19	18 19	18 19	18 19	18 19	18 19
Flindley	66 67	66 67	66 67	66 67	66 67	66 67
Gold Placer	36 38	36 38	36 38	36 38	36 38	36 38
Goodshaw	35 37	35 37	35 37	35 37	35 37	35 37
Granville	35 37	35 37	35 37	35 37	35 37	35 37
Great Eastern	60 61	60 61	60 61	60 61	60 61	60 61
Green Mountain	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40
Hukill	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40
Independence	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40
Lacrosse	49 50	49 50	49 50	49 50	49 50	49 50
Leadville	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40
Lucerne	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40	4 30 4 40
Moose	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10
Navajo	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10
New York & Col.	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10	2 05 2 10
No. Standard	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75
Plumas	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75
Rappahannock	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75	2 45 2 75
Shamrock	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00
South Hide	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00
Sierra Nevada	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00	2 95 3 00
Tloga	4 00	4 00	4 00	4 00	4 00	4 00
Tip Top	4 00	4 00	4 00	4 00	4 00	4 00
Tuscarora	4 00	4 00	4 00	4 00	4 00	4 00

Portland Mining Exchange.

The following are the closing prices at Portland Mining Exchange, Feb. 17, by T. H. Mauseld & Co., 67 Exchange street:

Blue Hill	\$8 00 @ 8 25
Boston Acton	40
Portland Acton	12
Forest City Acton	12
Atlantic	1 75 @ 2 00
Acton	18 @ 20
Douglas	6 50 @ 6 00
Darling Silver	1 00
Edgemoggin	1 75 @ 2 00
Fort Knox	50
Waukeag	6 75 @ 7 00
Milton	2 50 @ 3 00
Mineral Hill	1 00
Ammonoosuc Copper Mining Co. of Gardner Mountain, N. H.	1 00
Deer Isle	1 00
Clark Silver	10
Young Hecla	1 50
Grant	2 75 @ 3 00
Twin Lead	3 00 @ 3 50
Robert Emmett	2 25 @ 2 50
City of Boston (Club Stock)	1 85
Deer Isle	1 50
Maine, Acton (Club Stock)	25
Harrington	28
McFarland	1 25

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING TUESDAY, FEBRUARY 17, 1890.

NAME.	Wed.	Thurs.	Fri.	Sat.	Mon.	Tues.
Young Hecla	20	20	20	20	20	20
Acton	20	20	20	20	20	20
Ashley	20	20	20	20	20	20
Ammonoosuc	20	20	20	20	20	20
Atlantic	20	20	20	20	20	20
Blue Hill	20	20	20	20	20	20
Corinna	20	20	20	20	20	20
Cherryfield	20	20	20	20	20	20
Deer Isle	20	20	20	20	20	20
Douglas	20	20	20	20	20	20
Edgemoggin	20	20	20	20	20	20
Elsworth	20	20	20	20	20	20
Favorite	20	20	20	20	20	20
Forest City	20	20	20	20	20	20
Fort Knox	20	20	20	20	20	20
Gouldsborough	20	20	20	20	20	20
Grant	20	20	20	20	20	20
Hampden	20	20	20	20	20	20
Harrington	20	20	20	20	20	20
Home	20	20	20	20	20	20
Milton	20	20	20	20	20	20
Mineral Hill	20	20	20	20	20	20
Owl's Head	20	20	20	20	20	20
Pettit Menah	20	20	20	20	20	20
Portland Acton	20	20	20	20	20	20
Robert Emmett	20	20	20	20	20	20
Stover Hill	20	20	20	20	20	20
Sullivan	20	20	20	20	20	20
Twin Lead	20	20	20	20	20	20
Waukeag	20	20	20	20	20	20

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, FEBRUARY 18, 1890.

NAME.	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
Atlantic L. S.	25 27	25 27	25 27	25 27	25 27	25 27
Allouez	25	25	25	25	25	25
Blue Hill Copper	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Calumet & Hecla	244	243	244	245	241	244
Copper Fall	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Duncan Silver	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Franklin	43	43	43	43	43	43
International	4	4	4	4	4	4
Mesnard	4	4	4	4	4	4
National	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Oscuela	46	47	47	47	47	47
Pewabic	66	68	68	68	67	68
Quincy	43 1/2	43 1/2	43 1/2	43 1/2	43 1/2	43 1/2
Ridge	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
Silver Islet	23	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2
Star	4	4	4	4	4	4
Sullivan	12	12	12	12	12	12

Sales at Maine Mining Exchange, Bangor,

SATURDAY, FEBRUARY 14, 1880.

100 Twin Lead.....	@ \$3 05
100 Portland Acton.....	11 1/2
100 Harrington.....	25
25 Fort Knox.....	55
100 Young Hecla.....	1 00
100 Hampden.....	15
50 Twin Lead.....	3 05
100 Harrington.....	25
50 Fort Knox.....	52 1/2

Maine Mining Directory.

INCORPORATED COMPANIES.

Atlantic Copper Mining Company, Blue Hill, Me.
 Blue Hill Copper Mining and Smelting Co., Blue Hill, Me.
 Bangor & Blue Hill Falls Mining Co., Blue Hill, Me.
 Bisbee Copper Mining and Smelting Co., Blue Hill, Me.
 Douglass Copper Mining Co., Blue Hill, Me.
 Stover Hill Copper Mining Co., Blue Hill, Me.
 Twin Lead Copper Mining Co., Blue Hill, Me.
 Darling Silver Mining Co., Blue Hill, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Milton Mining and Milling Co., Sullivan, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 Grant Silver Mining Co., Hancock, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Home Silver Mining Co., Gouldsboro, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Petit Menan Silver Mining Co., Petit Menan, Me.
 Edgemoggin Silver Mining Co., Sedgwick, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Riverside Mining Co., Camden, Me.
 Acton Silver Mining Co., Acton, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 West City Silver Mining Co., Acton, Me.
 Fargo Silver Mining Co., Acton, Me.
 Hampden Silver Mining Co., Hampden, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Maine Silver Mining Co., Dexter, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Mineral Spring Silver Mining Co., Palmyra, Me.
 Lubec Silver Mining Co., Lubec, Me.
 Mineral Hill Mining Co., East Wakefield, N. H.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Lone Star Gold and Silver Mining Co., Woodstock, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 McFarland Silver Mining Co., Hancock, Me.
 Clark Silver Mining Co., Franklin, Me.
 Norombega Silver Mining Co., Hampden, Me.
 Bay View Silver and Copper Mining Co., Blue Hill, Me.
 Fort Knox Silver Mining Co., Prospect, Me.
 Lawrence Silver Mining Co., Hampden, Me.
 Globe Silver Mining Co., Gouldsboro, Me.
 Little Sue Silver Mining Co., Lamorne, Me.
 Egypt Silver Mining Co., Franklin, Me.
 White Star Silver and Copper Mining Co., Blue Hill, Me.
 Eastern Star Silver Mining Co., Ellsworth, Me.
 Western Union Silver Mining Co., Hancock, Me.
 Morancy Silver Mining Co., Sullivan, Me.
 Silver Reef Mining Co., Blue Hill, Me.
 Boston Acton Silver Mining Co., Acton, Me.
 Ellsworth Silver Mining Co., Ellsworth, Me.
 Young Hecla Copper Mining Co., Blue Hill, Me.
 West and Soble Silver Mining Co., Gouldsboro, Me.
 Snow Silver Mining Co., Bucksport, Me.
 Candage Copper Mining Co., Blue Hill, Me.
 Bucksport Silver Mining Co., Bucksport, Me.
 Favorite Copper Mining Co., Blue Hill, Me.
 Lebanon Acton Silver Mining Co., Lebanon, Me.
 Blue Hill Central Copper Mining Co., Blue Hill, Me.
 Franklin Silver Mining Co., Franklin, Me.
 Haviland Copper Mining Co., Gardner Mountain, N. H.
 Carroll Silver Mining Co., East Wakefield, N. H.
 Dick and Williamson Mining Co., Le Tete, N. B.

PRIVATE COMPANIES.

Gray Silver Mining Co., Blue Hill, Me.
 Whitten Silver Mining Co., Hancock, Me.

Clapham Silver Mining Co., Sullivan, Me.
 Tugwassa Silver Mining Co., Sullivan, Me.
 Pine Tree Silver Mining Co., Sullivan, Me.
 Hector Silver Mining Co., Gouldsboro, Me.
 Britton Silver Mining Co., Cherryfield, Me.
 Trescott Silver Mining Co., Lubec, Me.
 St. George Silver Mining Co., Lubec, Me.
 Denbo Point Silver Mining Co., Lubec, Me.
 Wing's Mills Silver Mining Co., Hamden, Me.
 Eastman Silver Mining Co., Hampden, Me.
 Hillside Silver Mining Co., Hermon, Me.
 Antimony Silver Mining Co., Levant, Me.
 Bassick Silver Mining Co., Lowell, Me.
 Shorey Silver Mining Co., Lowell, Me.
 Eskutassis Gold Mining Co., Lowell, Me.
 Guilford Silver Mining Co., Guilford, Me.
 Porter Silver Mining Co., St. Albans, Me.
 French Silver Mining Co., St. Albans, Me.
 Holland Silver Mining Co., St. Albans, Me.
 Silver Wave Silver Mining Co., Acton, Me.
 Emma Albina Silver Mining Co., No. Penobscot, Me.
 Lady Elgin Silver Mining Co., Blue Hill, Me.
 Blue Hill Central Copper Mining Co., Blue Hill, Me.
 City of Boston Copper Mining Co., Blue Hill, Me.
 Eastern Belle Gold and Silver Mining Co., Penobscot, Me.
 Barnes' Strike, Bucksport, Me.
 Arctic Mining Co., Blue Hill, Me.
 Star of the East Mining Co., Blue Hill, Me.
 Curtis Silver Mining Co., South Surry, Me.
 Deering Acton Silver Mining Co., Acton, Me.
 Sullivan Falls Silver Mining Co., Sullivan, Me.
 Bay View Silver Mining Co., Gouldsboro, Me.
 Faneuil Hall Silver Mining Co., Sullivan, Me.
 Russ Clay Gold and Silver Mining Co., No. Blue Hill, Me.
 Tip Top Silver Mining Co., Blue Hill, Me.
 Orient Silver Mining Co., Newport, Me.
 Swazey Copper Mining Co., Blue Hill, Me.
 Eureka Mining Co., Blue Hill, Me.
 American Union S. M. Co., Hancock, Me.
 Bullion Mining and Milling Co., Acton, Me.
 Maine Acton Silver Mining Co., Acton, Me.
 Mascarene Mining Co., St. George, N. B.

The Comstocks.

Why the Comstock stocks are at so low an ebb is well explained by a prominent gentleman of Virginia City. He says that honest men of capital are afraid to invest, for the reason that there is altogether too much secrecy in the manipulation of the mines; those desirous of keeping up the price of stocks, have been so often swindled, they acting in good faith and on the reports of experts that they have lost all confidence in the Comstock mines and propose to invest their capital in outside mines or to keep it locked up in their safes. Visiting the lower levels is all a humbug, at least so far as the general public is concerned. Paid reporters boost a mine up to the detriment of stockholders for the few dollars they relieve and for no legitimate cause. How often does it occur that those "on the inside" lose in stock speculations? seldom indeed; but the dealer of moderate means is clinched from day to day and has no resource against either thieving brokers or expert reporters. No one posted on the status of the Comstock mines believes that they are any worse to-day than a year ago, but Virginia City is now the dullest place in the State; business men feel as though they were on their last legs; wholesale merchants in San Francisco are trembling in their shoes—and for what? Because the mines are not properly handled; because there is no dependence to be placed on reports of experts, superintendents or reporters; because stock operations are conducted on the lowest order of gambling; because the rich are becoming richer and the poor poorer, and because confidence is dead, unless a different order of things is inaugurated. It is no use mincing matters, for every one in the State realizes that the heretofore busy metropolis must continue to go down unless a radical change in the operations of the great mines occurs, and it is a well-recognized fact that, as with individuals, so with mining operations, it is difficult to restore confidence when once forfeited. It makes the visitor to Storey County sad to see its glory departed, to see hundreds of idle men on street-corners and the disconsolate looks of those once so busy and contented. What affects Storey County affects Ormsby County, and so it is not going out of our legitimate business to give a little attention to the handling of the Comstock mines, blaming no individuals but the system merely.—[Carson Tribune.]

ACTON SILVER MINING COMPANY, ACTON,
Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
MR. COFFEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL,
Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Loughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOSUC COPPER MINING COMPANY,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St., Portland Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING COMPANY,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodson, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.

BLUE HILL COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manering Emery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon. S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. T. Pearson of Bangor; Vice-President, John S. Jenness of Bangor; Treasurer, Edward B. Nealley of Bangor; Secretary, John R. Mason of Bangor; Directors—Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.

BOSTON ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Dennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Saml. Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth; Secretary, J. T. Crippen; Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Frank P. Wood, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Frank P. Wood, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Huckins.

DIRIGO SILVER MINING COMPANY,
Acton, Me. Incorporated, Jan., 1879.
Capital, \$500,000; Shares, \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors—I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.
MR. GOULD, Supt.

EAST BLUEHILL GOLD & SILVER MINING CO.
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M.D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EASTERN STAR SILVER MINING COMPANY,
Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, A. F. Smith, Bangor; Directors—A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, I. S. Emery, George Sweetser.

EDGEMOGGIN SILVER MINING COMPANY,
Sedgwick, Me. Incorporated, June, 1877; reorganized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors—Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, W. H. Sargent, Wm. R. Page.
Office of Company, 22 Exchange St., Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.

FOREST CITY SILVER MINING COMPANY,
Acton, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Reddon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Baker, James E. Sturges, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

FORT KNOX SILVER MINING COMPANY,
Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.
A. R. FELLOWS, Supt.

GARDNER MOUNTAIN COPPER MINING CO.
Littleton, N. H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.
Supt.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAMPDEN SILVER MINING COMPANY,
Hampden, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon. F. M. Loughton, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Loughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor. Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
Supt.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable.
JOHN SHOENBAR, Supt.

MC FARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

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President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital stock, \$500,000; Shares, \$5 each; Treasury Fund, 35,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund 100,000 Shares.
President, Weston F. Milliken; Treasurer, James L. Racklin, Secretary, Chas. D. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 24 Exchange St., Portland, Me.

DETIT MENAN SILVER MINING COMPANY,
Feit Menan Point, Steuben, Me. Incorporated
Aug., 1879.Capital, \$400,000; Shares \$10 each; Treasury
Fund, 10,000 Shares.President, E. H. Greeley, Bar Harbor; Treas-
urer, L. B. Wyman, Ellsworth; Secretary, J. B.
Redman, Ellsworth; Directors—E. H. Greeley, J.
W. Davis, L. B. Wyman, W. C. Ricker.

A. S. JARVIS, Supt.

QUEEN CITY SILVER MINING COMPANY,
Bangor, Me. Incorporated, Dec., 1879.Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.President—Dr. H. F. Hanson, Bangor. Vice-
President, J. S. Ricker, Bangor. Treasurer, Chas.
Hight, Bangor. Secretary, W. J. Patten, Bangor.
Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-
sander Palmer, J. W. Thompson, George F. Dil-
lingham.**ROBERT EMMETT SILVER MINING CO.,**
Egypt Bay, Hancock, Me. Incorp., July, 1879.Capital, \$400,000; Shares, \$10 each; Treasury
Fund, Shares.President, H. Whiting, Ellsworth. Treasurer,
A. A. Bartlett, Ellsworth. Secretary, George A.
Parcher, Ellsworth. Directors—Henry Whiting,
Marcus Mullan, James F. Davis, Guy Mullan, A.
A. Bartlett.

P. MULLAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 28,000 Shares.President, J. S. Ricker, Bangor. Treasurer and
Secretary, Wm. F. Hubbard, Bangor. Directors—
J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M.
Laughon, Bangor; Melvin Preble, Bangor; Geo.
Brooks, Orrington; W. H. Darling, Blue Hill; H.
B. Darling, Blue Hill.

H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
on the Sullivan Lode, Sullivan, Me. Incor-
porated, April, 1878.Capital, \$500,000; Shares, \$10 each; Unasses-
sable; Treasury Fund, Shares.President, Geo. B. Brown, Boston; Secretary, W.
O. Arnold, Bangor; Treasurer, F. R. Nourse, Bos-
ton; Directors, Geo. B. Brown, Joseph G. Russel,
Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Rich-

B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.President, W. P. Hubbard, Bangor; Treasurer,
J. S. Ricker, Bangor; Secretary, C. F. Bragg, Ban-
gor; Directors—W. P. Hubbard, J. S. Ricker, C. F.
Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H.
M. Bartlett.**TWIN LEAD COPPER MINING COMPANY,**
Blue Hill, Me. Incorporated, Dec., 1879.Capital, \$500,000; Shares, \$5 each; Treasury
Fund, Shares.President—David Bugbee, Bangor. Vice-Presi-
dent, Frank P. Wood, Bangor. Treasurer, John
S. Jenness, Bangor. Secretary, John K. Mason,
Bangor. Directors—David Bugbee, Frank P.
Wood, Charles Duff, J. S. Ricker, Samuel Sterns,
James Littlefield, Wm. Swazey.

CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office
No. 4 Sears Building, Boston.President, B. S. Grant, of Boston, Mass.; Secre-
tary, W. O. Arnold, of Bangor, Me.; Treasurer,
Geo. E. Harrington, of Salem, Mass.; Directors, B.
S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E.
Harrington, W. E. Connor, L. Foster Morse, C. P.
Weston. Capital stock \$500,000—50,000 shares, par
value \$10 each. Unassessable.

B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.President, Chas. I. Collamore, Bangor; Secre-
tary and Treasurer, Harry C. Bliss, Bangor; Di-
rectors—Chas. I. Collamore, Alonzo Packard, Co-
lin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.**WHITE STAR SILVER & COPPER MINING CO.,**
Blue Hill, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares \$5 each.

President, Hon. H. C. Martin, Brunswick; Vice-
President, J. W. Milliken, Bangor; Treasurer, W.
Hubbard, Bangor; Secretary, F. H. Clergue,
or; Directors—H. C. Martin, J. W. Milliken,
Charles Adams, W. H. Darling, Parris G. Merrill, F.
H. Clergue.**YOUNG HECLE COPPER MINING COMPANY,**
Blue Hill, Me. Incorporated, Feb., 1880.Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.President, John S. Jenness, Bangor; Vice-Presi-
dent, Charles Hamlin, Bangor; Treasurer, John
R. Mason, Bangor; Secretary, W. F. Seavey, Ban-
gor; Directors—John S. Jenness, Charles Hamlin,
Samuel R. Prentiss, Wm. D. Swazey, William H.
Darling, James W. Davis.**Darling Silver Mining Co.**There will be an adjourned meeting of the stock-
holders of the Darling Silver Mining Co. at the
Maine Mining Exchange, MONDAY, Feb. 23rd, at
3 o'clock P. M. A full attendance is desirable, as
there is important business to transact.

W. K. KNOWLES, Sec'y.

City of Boston**COPPER****Mining Company.**The mining property known as the "City of Bos-
ton Copper Mine," is situated in the centre of the
great mineral zone of Copper bearing ore in Blue
Hill, Hancock County, Maine. It is the Douglass
home farm, of which the property now known as
the "Douglass Copper Mining Co." was formerly a
part. It is upon the south side of the road leading
to Blue Hill village, and the adjoining property
upon the west is the "Atlantic Copper Mining
Co."; and that upon the east is the "Bluehill Cop-
per Mining and Smelting Co." The dip of the ore
channels or veins is to the south, and their course
is nearly N.E. and S.W. At the north side of the
property the veins are 550 feet in length; toward
the south the property rapidly widens east and
west, so that when the granite wall upon the
south is reached, at about 1000 feet from the north-
ern boundary, the veins are about 1500 feet in
length, and their average length throughout the
property is about 1100 feet.William H. Darling of Blue Hill, the present
owner of the above described property, offers it
for sale upon the following terms:He proposes to form a joint stock company, un-
der the laws of the State of Maine, said company
to have a capital of \$500,000, to be divided into
100,000 shares of par value of Five Dollars each,
which are to be forever unassessable. Said W. H.
Darling agrees to put into the Treasury of the
company so formed, 25,000 shares of the capital
stock of the company, and nine thousand dollars
(\$9,000) in cash; and he offers of the remainder,
45,000 shares for sale at one dollar and eighty-five
cents (\$1.85) per share. When 45,000 shares are
sold, the company shall be organized, and said
Darling agrees to give the company a perfect title
to the property and a warrant deed.

feb4

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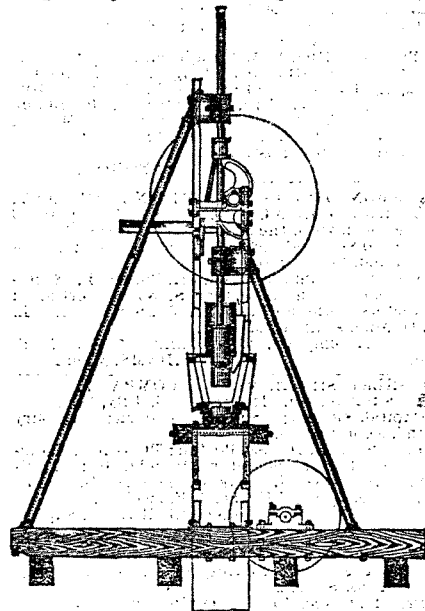
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Bucksport & Bangor Railroad



CHANGE OF TIME, JAN. 26, 1880.

Leave Bucksport.....5.30 A. M. and 1.30 P. M.
Arr. Bangor.....6.45 A. M. and 2.50 P. M.
Leave Bangor.....10.00 A. M. and 7.15 P. M.
Arr. Bucksport.....11.30 A. M. and 8.30 P. M.

Morning train connects via E. & N. A. R'y with M. C. R. R. for Portland and Boston. Through passengers from the Maine Central evening train will be transferred in the Penobscot Exchange coaches.

Stages connect daily at Bucksport to and from Castine, Bluehill, Ellsworth, Sullivan and Mt. Desert.

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J. B. COYLE, Jr., Gen'l Agent, Portland.

apr26

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FOR 1880.

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March, 1880.

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 - Fourth—I am a good worker and willing at all times.
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 - Seventh—I have not a single vice or bad habit.
 - Eighth—I never ask for a holiday.
 - Ninth—I always give satisfaction, no matter how fast I am compelled to work.
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 - Eleventh—I have no country cousins or other company.
 - Twelfth—I have no particular religion, but am willing to conform to the belief of my employer.
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DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

[Entered as second-class mail matter.]

Vol. I. No. 10.

BANGOR, MAINE, MARCH 5, 1880.

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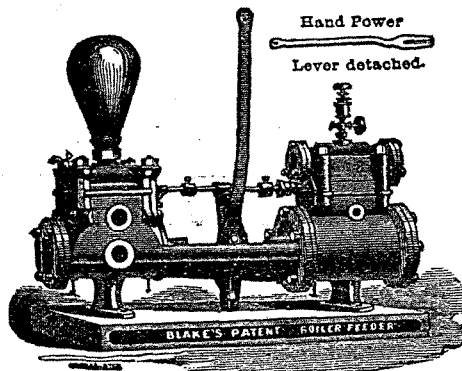
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING,
W. F. BLANDING,) EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MARCH 5, 1880.

As quite a number of subscribers persist in connecting the names of several of our advertisers with the publication of this paper, we wish to distinctly state, once and for all, that the parties whose names appear at the head of this column are the only individuals who have a penny's worth of interest in, or are in way connected with the MINING JOURNAL.

ENCOURAGING PROSPECTS.

Those who have not closely watched the progress of mining affairs and noted the active and rapidly increasing interest manifested outside the State in Maine mines do not realize the intense excitement which is to pervade Maine the coming season. Believe it or not, the Pine Tree State will soon experience a bewildering rush, flurry and whirl of excitement that will upset things generally and make a chaos of everything unless the minds of the people are in a measure prepared for it.

Mining for the precious metals is a business the very nature of which tends to bring out the innate greed and selfishness of human nature which we all to a greater or less extent possess. Not only do the actual workers of a mine become imbued with this spirit, but others who see prospects of remunerative and immediate returns from small amounts invested are attacked also, and frequently to such an extent as to lead them not merely beyond the ordinary bounds of caution but beyond all teachings of reason and common sense.

Another danger is that our business men becoming so vitally interested in mining enterprises and so intimately connected with their management, the ordinary branches of business which more than ever the coming season demand the strictest attention may be neglected. It is well to be enthusiastic in this matter—indeed one cannot be otherwise who realizes its breadth and scope and the immense benefits the people of Maine are likely to derive from it—but it is also of the utmost importance that our excitement be tempered with a due proportion of moderation and caution.

Within a year from the present time many marked and

radical changes will have come over affairs in Maine and it is well to govern ourselves accordingly and keep pace with the march of improvement. Within that time we look for the establishment of many of our mines upon a permanent and *paying* basis, with others rapidly falling into line, while we sincerely hope that the worthless properties and wild-cat companies, if any such exist, will have dropped from sight.

The one thing needful to insure an almost unlimited influx of capital into the State, and for which many capitalists are anxiously waiting is a "divy." That they may not wait long is our earnest wish and that they will not is our sincere belief. The prospects are better than ever before and are brightening with each day's progress. New and more rational methods employed by *miners* are supplanting the crude processes of well diggers and quarry-men; a number of experienced and energetic miners already have operations in charge and three of the best mine superintendents and engineers of the Comstock are on their way and will soon arrive—Mr. Dickson to take charge of the Acton, Mr. Cahill of the Harrington and Mr. O'Connell of the City of Boston. Not only this, but the bonanza firms are sending representatives into the State to make examinations and report results. One has recently made a tour of the mines in the interest of noted New York capitalists and one result of his investigation has been the recent boom in the stocks of the Sullivan lode. Mr. Smith a mining expert of many years experience from Nevada, is at present here for the same purpose, and we understand has consented to take charge of several mining properties in this vicinity if he is pleased with the prospect. Mr. Ellershausen, proprietor of the great Newfoundland copper mines is with us accompanied by a noted geologist; Mr. Philip Deidesheimer for thirty years prominently connected with the Comstock mines and the inventor of the system of timbering shafts by which alone they can be worked to great depths is on the way, and if the opinions of these men are favorable and we have not the slightest doubt they will be, Maine will at once become the centre of attraction for eastern capitalists. The men of this class who have come to reside permanently among us will soon make their influence felt and their energetic methods will give a new impetus to every branch of business. In mining their services are invaluable as it is a new business with us and many a good mine may become well-nigh worthless through improper management at the start.

On the whole we can but feel well satisfied with the progress which has been made. We think no mining district in the world can present so favorable a showing. The obstacles to be overcome were so numerous—the skepticism of the people; the difficulty of procuring capital; the almost total ignorance of how mining enterprises should be carried on—that the pioneers in this future industry of Maine are deserving of unlimited credit and liberal reward.

It is a remarkable fact that notwithstanding the very large number of mining companies in existence in this State where it is not so easy to deceive people with regard to the condition of their properties as if they were located in some remote and inaccessible region of the far West, the bottom has not as yet dropped from a single one of them. In some instances to be sure the companies have been organized too

early, and the results may yet prove disastrous, but in most cases we feel very sure the parties concerned have been led to such a course by their ungovernable enthusiasm rather than by any wrong intentions or dishonest purposes.

HERALDIC SCIENCE.

The Boston Herald has lately attacked the mines of Maine and considering its position as a scientific authority may have some influence.

In the supplement of Sunday, Feb. 29, an article appeared on "The Precious Metals," containing the following precious information: "Gold is the only metal that is invariably found in a native state, though there are those who believe it is chemically combined with the baser metals and metalloids."

In correction we may say *all* chemists, mineralogists and geologists *know* gold occurs combined with base metals and metalloids. Most gold miners and prospectors know it. The fact is mentioned in most elementary text books on minerals; for instance, Elderhorst's Manual of Blow-Pipe Analysis, edition of Nason and Chandler and in the old edition of 1866.

Amongst those who believe gold is chemically combined with the baser metals and metalloids we will name Prof. James D. Dana of Yale. We refer the Herald to "A System of Mineralogy" by Professors Dana and Brush, it will find mention there of the well defined minerals Sylvanite and Nagyagite. Sylvanite contains tellurium, silver, gold, antimony and lead with occasional traces of copper, iron, sulphur and arsenic. Nagyagite contains tellurium, sulphur, lead and gold, and frequently silver, antimony and selenium.

This is not an isolated error; only the day previous, Saturday the 28th, in an article of some length, a new discovery was announced that "linseed oil could be used as a substitute for India rubber; combined with fibrous materials as a substitute for leather." It has long been used, as have other drying oils for such purposes. The Japanese make a leather paper in this way. We have even seen an oil cloth carpet on an American floor and patent leather boots on American feet.

Parkes used oil vulcanized with chloride of sulphur in "Parkesine," one of the best rubber substitutes yet discovered. Consolidated oil or factitious caoutchouc was made from oxidized linseed oil hardened with shellac. We have been told that cotton seed oil changed by heat has been used by Day, the inventor of Kerite, another rubber substitute, and the inventor of the water proof composition, Tunyoap, uses fish oil oxidized by heat and currents of air.

Personals.

MR. L. B. WYMAN, of the Ellsworth Mining Exchange, was in Bangor on Wednesday last.

MR. EDWARD MULLAN is now in Bangor putting on the market a property adjoining the Franklin.

We received a call a few days since from Superintendent BRYANT of the Deer Isle Silver mine. He makes a brief visit to Portland and returns the present week.

Prof. C. H. HITCHCOCK, of Dartmouth College, lectures before the Bullion Club of New York City on Tuesday

evening next, upon "The Gold Fields of New Hampshire and the Silver Mines of Maine."

MR. J. N. DONHAM, agent of the Maine Register, is in the city making revisions and corrections for the year 1880. This is a work which no business man should be without, and is soon to be issued by Hoyt, Fogg & Donham, Portland.

Maine Argentiferous Lead Ores.

BY J. CULLEN AYER, M. E.

There are several different processes by which lead-silver ores, with a character similar to those of Maine, may be treated. The choice of a process is, however, chiefly influenced by the nature of the ores and local circumstances, both of which must be carefully considered and fully determined previous to the adoption of any one particular process. Maine ores, however, behave more kindly under the following process than any other. It is possible that for some time to come no one mine in Maine will be sufficiently developed to warrant the desilverization of the base bullion produced by the furnaces; therefore I confine this communication to the production of argentiferous lead (a base bullion) making my statements general and applicable to silver-lead ores only.

The gangue of Maine ores being generally acidic, bisilicates, or trisilicates, and the ores themselves lean, the economical treatment of such ores requires that a large proportion of the vein stone should be removed by hand dressing as a preliminary step, preparatory to further treatment of the ore, which should proceed in the following order:

1st, roasting in heaps, stalls, or furnaces; 2d, breaking and grinding the roasted ore by rolls; 3d, separation into equal falling particles; 4th, concentration by means of percussion tables; 5th, agglutination of the ore and fluxes, and rebreaking; 6th, smelting.

Roasting converts the sulphides into oxides, and is absolutely necessary in order that the ores may be desulphurized and oxides formed, as far as possible. The least expensive mode of roasting would be in heaps, the time consumed varying from five to seven weeks. This mode is, however, very objectionable in inhabited districts, the gases arising from the roasting ores being not only injurious to health, but also destroying the vegetation of a large surrounding district. Stalls require far less time, but more fuel. Furnaces, either cupola, whereby sulphuric acid may be produced as a by-product, or reverberatory, which latter, although costly to construct, are more satisfactory in operation, and enable foreign substances associated with the ores to be more or less controlled to the advantage of the roasting process, should be used. Above all, the use of furnaces expedites any process requiring them, and returns better results. Well-roasted ores, being friable, can be easily broken and crushed by Cornish or other rolls.

The continual complaint in the reduction works of the Pacific slope is that there is a scarcity of lead in the ores, and that the amount of metallic lead required to be added to the ores so increases the cost of working that unless the ores are rich in silver they will not repay the cost of reduction. Here on the seaboard, where the transportation of metallic lead would be a minimum, with labor at forty per cent, and fuel at twenty-five per cent of its cost in the West, and our numerous improvements in mining machinery, very poor ores, if not rebellious, should with economy, be profitably worked, and the cost of using metallic lead to assist reduction be nominal.

With any silver-lead ore, however, it is never advisable or profitable to supply additional lead, if its use can be avoided. I would therefore suggest that in districts similar to Maine, where fuel is cheap, and both labor and water abundant, and where the ore itself is accompanied by so large a percentage of vein stone to metal that a complete concentration by the sepa-

ration of equal falling particles upon percussion tables be adopted. Budells and jiggers of course will accomplish approximately similar results, but by their use the separation is not as complete, the more minute particles of ore passing off in the slimes, and their cost and the power required being many times more than by the process of concentration suggested. The great benefit to be derived, however, from this method of concentration and separation is that it enables the ores to be properly fluxed when charged into the furnace, the fluxing of ores being the most important act in the whole course of the rock from its place in the mine until it yields up the particular metal sought within it.

The use of the percussion table allows the ore as fed upon it to separate from the silicates forming the vein stone or gangue. This being either barren or containing a small proportion of ore, the barren ore goes to the dump, and the remainder affords the necessary silica for the furnace, which, with lime to assist in liquefying the silicates and iron (hematite or magnetite,) constitute the necessary fluxes of the furnace charge. By the previous steps taken we presume the galena with any other accompanying ores, having been concentrated, exists in small particles, while the poorer ores, carrying large percentage of silica, are of larger size, and the iron has been crushed to pea size accompanied by more or less fine stuff. In order to charge the above into the furnace, afford the necessary lime flux, prevent such finely-divided material blowing out of the furnace, and above all to so intimately incorporate the ore and the fluxes that the heat action before the tuyer may be uniform and certain, the ores, silica and iron should be cemented or agglutinated together with the due proportion of carbonate of lime required as a flux, in the form of milk of lime; this matter, broken into lumps of fist size, is in proper condition for the furnace. Possibly raw coals may be used in a furnace with ores thus concentrated and fluxed. It may further become necessary to use small quantities of metallic lead, in instances where ores are poor in lead, and base metals predominate. Maine ores varying somewhat in character, no particular proportion for fluxes can be given as adapted to all ores; neither can the time required in the several acts of the process be definitely stated. Yet these general principles hold good throughout: that the ores must be freed from unnecessary gangue, properly roasted, concentrated and intimately associated with their fluxes to produce the best results.

The base bullion resulting from the smelting is a merchantable product, or it can be desilverized upon the premises by a zinc or other process.—[Economist.]

CORRESPONDENCE.

Sullivan Falls.

To the Editor of the Maine Mining Journal:

DEAR SIR:—Each mine working in ore in our neighborhood sends in daily encouraging reports of the outlook on their properties, and the cry of the sceptic is no longer heard in the land. The latest development of surface ore comes from Sullivan, on the property hitherto known as the "Clapham lot," but to be organized this week under the name of "The Sullivan Falls," they have been taking out ore for the past week which in every particular is exactly identical with that taken from the "Sullivan" in the first ten feet. The vein is three feet wide (two feet wider than the Sullivan at its start) and is actually crammed with gold and silver-bearing sulphurets. The evidence of many of the first laborers on the "Sullivan" is that it is just like the "old shaft."

There has always been much doubt in the sceptical mind (and it has been very fashionable to be a sceptic) whether the "Sullivan" chimney or deposit extended more than a few hundred feet, and there has actually been no surface showing that would warrant the pugnacious believer in taking up cudgels in behalf of the other side. Now we have a complete answer to all that has been said, and a worthy monument to the patience and docility of the upholders of the faith. It is the connecting link between the two series of shafts, one commencing at the "Sullivan," and all depending on the "Sullivan" for life and indications, the other at the "Millbrook" where it took a hole sixty feet in depth to convince people that that there was even an indication of mineral east of the "Sullivan."

Ellsworth, Mar. 2d, 1880.

FOREIGN MINING NOTES.

BY F. L. BARTLETT, STATE ASSAYER.

No. 2.

Editor Maine Mining Journal:

IN the MAINE MINING JOURNAL of the date Jan. 30, I find an extract from a private letter of mine, parts of which, might if taken literally, lead to a wrong conclusion regarding copper smelting. One sentence reads "three-fourths of the copper smelted in England comes in the form of precipitate," meaning to convey the idea that of all the ore treated in England three-fourths is made into precipitate, and not that three-fourths of the copper metal is produced from precipitate, or to make it still clearer, 600,000 tons of 2 3-4 per cent ore are worked up into precipitate. The percentage is so low that of course the metal production is smaller than that from the ores smelted which average probably 12 or 15 per cent.

In my first letter I attempted to give some idea of the metal trade of England and how conducted. Since writing that letter the prices have considerably advanced, especially tin and copper. The price of 12 per cent copper ore yesterday (Feb. 13) being 14 shillings and threepence per unit or about \$3.56 our money. Dealers, however, express some doubt about the maintenance of the prices for any considerable length of time. A close analysis of the condition of the metal trade leads me to the belief that the prices, subject to slight fluctuations, will hold up for a long time because trade of all kinds is improving, the demand for the metals is constantly increasing, the iron trade controls in a measure all the others, and this is in an unusually good condition; contracts are being made for six and twelve months ahead; the demand from America for English iron is unprecedented; all the other metals partake in the general advance; ship building has revived; factories that have lain idle for a long time are starting up; the dealers in metals had sold short, owing to the general depression, and now find themselves obliged to stock up. In the face of all this I believe we are justified in saying that the metal trade will continue good for a long time. The mines cannot greatly augment their output, for the present at least; what else then may we expect but better prices and continued good trade?

SMELTING IN MAINE.

Since it has now become a serious question with the Maine mining men of "what to do with our silver and copper ores" perhaps I cannot do better than briefly and at once give some of the results of my investigations amongst the English smelters. I have carefully and faithfully studied the question of smelting, by personal investigation amongst many of the best works in England, and I am compelled to admit, much against my will, that smelting can be carried on so much cheaper in England *that it will be more profitable for us to ship our ores than to smelt them at home.* Why is it that ores are shipped from every part of the world to England to be smelted? South America, Cuba, Mexico, Australia, New Zealand, Spain, Coasts of the Mediterranean, Newfoundland and the States all send ores. There must be some good reason for it; again why is it that England is sending pig iron and steel to America by the thousands of tons?

The chief reasons for this are exhibited in the facts that their coal is cheaper, their labor is cheaper, and last but not least, their skilled labor is far superior to ours. Take for instance the smelting of copper ores at St. Helens. Coal costs there only \$71-2 cts to \$1. per ton, labor from 25 to 75 cts. per day. All the "waste" is utilized; by the accumulated results of long years of practice the process has been brought to a state of almost perfection. No time or money is spent in experiments, interest is only 2 1-2 or 3 per cent on the capital invested, no large salaries are paid for useless superintendents or managers. With these facts before us how then are we going to compete with them? To bring coal to our copper mines, with freight and all would cost \$5.00 to \$6.00 per ton, labor would cost from \$1.50 to \$2.50 per day; interest is worth 5 to 8 per cent, skilled labor can be obtained only at the most exorbitant rates; we have had no experience, we cannot utilize the waste products. These items reduced to figures show us at once that the difference in the cost of smelting is greater than the cost of shipping ores to Liverpool. The difference in the cost of the coal alone will pay the freight across the Atlantic. Again we have the fact before us that smelting has been tried somewhat in the eastern States and with one or two exceptions has always proved disastrous. Ore of only 6 per cent grade is now being shipped from the copper works at Phenixville, Pa. to Liverpool. To illustrate still further take the Spanish pyrites which is being shipped in such quantities to England, the product in copper is rarely more than 3 per cent, silver 1 1-2 to 2 ounces, gold 4 to 8 grains per ton and the sulphur from 45 to 50 per cent, yet such is the skill shown in the treatment that all of these substances are saved even to the iron. I have the account sales of a cargo of this

ore now before me and will copy from it: "For a parcel of sulphur ore del'v. at Garston on Jan. 13, 1880. Sample marked "Spain"—copper produce 2 3-4 per cent, sulphur produce 49 per cent, 202 tons, 10 cwt., 1 qr., less moisture 52-7000, less draft 3 1-2 lbs. per 3 cwt., rated at tons of 2100 lbs., copper \$7.50 per ton, sulphur \$6.12 1-2 per ton" making a total of \$13.62 1-2 net per ton for the ore. The iron, the few grains of gold, and one or two ounces of silver, the smelter does not pay for, but extracts it and thereby makes a profit. After the treatment at the works nothing remains but the iron and this is sold to the iron smelters, much of it coming to the United States. I may add that ores of this class are treated by a process of roasting and wet extraction, details of which I will give at some future time. With coal in Maine worth four or five times as much, labor twice or three times as much, and no skill to speak of, it seems to me that it will be much more advantageous to ship our ores, especially the high grade. There are wet processes in use in England for the treatment of low grade ores that I think might be used with profit in Maine. Silver ores that do not contain more than 8 per cent of lead can probably be "amalgamated" profitably. Coarse "regulus" or "Matte" might be made of some of our copper ores in a blast furnace and the pure galena ores run into coarse lead thereby much reducing the bulk and weight at no great expense, but *complete smelting* cannot in my judgment be made profitable in our State unless some new way is found that will diminish the cost of fuel and labor.

Nearly all kinds of smelting are long, tedious operations requiring great skill. In copper smelting there are no less than six furnace operations. In lead and silver smelting from 7 to 10 operations have to be gone through with before the metals are ready for the market. In copper smelting it requires from 15 to 30 tons of coal to produce one ton of copper, nearly double the amount of the ore itself. This is the principal reason why it is more profitable to carry the ore to the coal than the coal to the ore. In England smelting is carried on in the midst of other chemical works so that fluxes are obtained very cheaply and all the waste stuff from the smelting works is utilized on the ground. Ores cannot be smelted profitably unless many different kinds are at hand so that the necessary *mixing* of the ores may be made in order to insure good results and economy. In Maine there is not variety enough. The ores are all too much alike and there are no chemical works to furnish fluxes and take the waste products. Lead smelters treat low grade silver ores and ores containing much silica by mixing with pure galena that contains little silver. Copper smelters find that in order to obtain the best results the ore should not contain less than 9 per cent nor more than 14 per cent of copper; consequently high grade ores are mixed with low grade to save roasting and fuel, the "carbonates" from Mexico containing 26 per cent of copper are mixed with "pyrites" from Betts' Cove containing only 7 1-4 per cent. The experienced smelter has a vast collection of ores to select from and he skillfully combines them and actually fluxes his ores with ores.

Smelting dates back in England to a time when America was a howling wilderness and the aboriginal inhabitants were bruising each other's heads with flint hatchets. "The tricks of trade" have been handed down from father to son and so well have they been guarded that to this day there are processes in use that are extremely hard to find out. Practice has made perfect, plant has been added to plant, until smelting in England stands in a position which will make it hard for competition. Smelting on a small scale does not pay and the English smelting works are for the most part extensive and costly; \$200,000 plants are not by any means uncommon.

I think I have said enough to prove that it will pay us better to ship our ores than to smelt them at home. In my next letter I will discuss some of the new processes and give the values of ores in the Liverpool markets; also some details of the cost of shipping. Good *dressing* machinery not smelting works is what Maine most needs now for her ore productions. In this matter of dressing the ores I fear that we have aimed at too expensive, complicated and fine working machinery. Here in England a carpenter will make about everything on the ground that is used to dress the ores, with the exception of the crushing machinery, and even that is extremely simple. Coarse working wooden jigs and buddles, simple but effective, work the ore down to good smelting quality. No matter for a few per cent of loss, *quantity* and *cheapness* of work is the order. If you can save 75 per cent of your ore for 50 cents per ton it pays better than to save 90 per cent at \$2.50 per ton, generally speaking.

Liverpool, Feb. 14th, 1880.

GEOLOGICAL REPORT,

On the Property of the Snow Silver Mining Company of Bucksport.

It is a delicate and dangerous business to hazard unqualified

opinions in relation to the future possibilities, or even approximate probabilities, of a slightly developed deposit of precious metals, in a comparatively unexplored district of country; and therefore, in attempting the delineation of the "Snow Mine" near Bucksport Centre, a locality almost unknown as a mining locality—I shall use the utmost caution, and shall confine my report entirely to the geological structure of the district, and to the mineralogical conditions observable at the mine.

The Snow Mine is situated at a point two miles to the eastward of Bucksport Centre on the Penobscot River, State of Maine. This property is easy of access by an excellent carriage road and is in the heart of one of the first settled and one of the most populous districts in the State.

The immediate lithological surroundings of the mine are lamellar metamorphic sandstones and tough silicious slates, the cleavage trends of which have an average bearing toward the northeast and southwest. The strata are much tilted by secular foldings and uplifts, having a general dip, or inclination toward the southeast of sixty-five degrees below the horizon. It may here be noted, however, that the strata of sandstones and slates are perfectly conformable, and that there are no perceptible evidences in their vicinity of faultings or flexures by local eruptive disturbances. The sandstones are exceedingly compact and lifeless in texture, apparently having been denuded of their plus silica by the overlying slates, which are notably silicious, and which are, at many points, completely striated with bands of barren white quartz. In fact, by the processes of metamorphism, the sandstones are now simply laminated beds of tough arenaceous clay, having a general strike and synclinal dip with the accompanying quartzose slates.

Owing to the total absence of fossil remains in the Bucksport rocks it is difficult to determine the geological position of the strata. As the beds of slates, shales and quartzites in this region are, at many points, non-conformable with the Laurentian rocks, some eminent American and Canadian geologists have placed them in the Huronian series. This conclusion may be correct so far as certain portions of the eastern border of Maine are concerned, but from the lithological characteristics of the Bucksport groups it is just as safe to place them in the Primordial or Cambrian. In his Manual of Geology, Professor Dana remarks that:—"Primordial rocks have been observed over various parts of the North American continent, both adjoining the Archæan regions of New York, Canada, and elsewhere (where they bear every evidence that they were formed on the shores of the Archæan lands,) and also distant from them, where in some places they were made in the deeper continental seas. They occur on the eastern border of the continent, in Newfoundland, Nova Scotia, New Brunswick and eastern Massachusetts; in northern Vermont, northern New York and Canada. * * * All the various kinds of sedimentary rocks occur in the Primordial. Sandstones, shaly sandstones, and shales are the prevailing kinds. Limestones cover only small areas. There are also, through metamorphism, various crystalline rocks; and among them the gold-bearing rocks of Nova Scotia."

The facts noted by Professor Dana not only suggest the probability that the strata of eastern Maine belong to the Primordial or Cambrian, but they also furnish the significant hint that those strata are charged with the royal metals. Gold has been obtained in considerable quantities from the Cambrian rocks of Nova Scotia and from various other portions of the Primordial system in North America as well as in Europe, and there can be no valid reason why the well formed fissure quartz veins in the identically same series of rocks at Bucksport Centre, shall not be equally charged with the same precious metals. It makes slight difference, however, whether the strata at Bucksport be Cambrian or Huronian. It is well known that azoic sedimentary rocks, as well as the more recent palæozoic Triassic and Jurassic, are alike charged with exhaustless deposits of gold, silver and other precious and valuable metals. As to

the mineralization of the ancient sedimentary rocks and fissures with precious metals, there can be no possible question. The most important fact in relation to those primitive masses is that they are profound in depth and as they are usually tilted toward the vertical, the reefs or ledges of vein-stones which permeate their fractures, are equally profound in depth and are practically inexhaustible.

Having briefly alluded to the probable geological position of the Snow Mine as well as to the probable permanency and fertility of mineralized veins in the ancient metamorphic rocks, I shall proceed to delineate the mine as it appeared on the 30th day of October, 1879.

The gangue rock or matrix of the mineralized quartz or vein stone is simply a zone of laminated metamorphic quartzite enclosed by walls of slaty argillaceous sandstones. The surface diameter of the quartzite zone, or reef, at the point of excavation is about nine feet. The vertical depth of the excavation in the vein stuff is ten feet. Near the surface of the excavation there is but little true quartz visible in the enclosing quartzite, but the reticulated seams of quartz rapidly expand as depth is attained, and at the bottom of the pit the entire mass—except a narrow belt of silicious black slate two feet in diameter—is mainly compact quartz heavily charged with iron pyrites. The strike and dip of the vein is conformable with the cleavage trend and dip of the enclosing sandstones and is unmistakably a true fissure deposit. As above intimated the trend of the vein-stone is toward the northeast and southwest—to be more explicit, the trend is N. 69° E., and the dip, or inclination of the vein is 65° below the horizon.

According to the observations of E. Hopkins the distinguished English Mining Engineer, Professor Le Conte of the California State University, L. Figuier the eminent French geologist, and other equally trustworthy observers, one of the very best indications of ledge permanency is a clay selvage or "fluccan" resting between the vein-stone and hanging wall of the lode. Even at the slight depth attained in the Snow Mine this encouraging peculiarity is plainly observable. In fact the clay seam or selvage at the Snow is not less than from one to two inches in thickness and plainly defines the contact of the hanging wall with the vein-stone. The two feet of black slate to which I have alluded, is striated with seams of quartz and iron pyrites and will ultimately give place to homogeneous quartz. In brief—the entire mass of vein-stuff will at no very great depth—become a solid mass of mineralized quartz. As to the precise character of its mineralization I am unable to predict with any degree of certainty. That the ledge is a perfect fissure deposit does not admit of a doubt. That it reposes in a system of rocks peculiarly favorable for veins of precious metals is equally certain. That the vein of the Snow Mine has yielded by assay some traces of gold and silver I have been fully convinced, and from the texture of the quartz at the bottom of the present excavation, the indications are favorable for an increase of silver and gold. More than this I dare not state. It is clear, however, that the geological, mineralogical, and lithological characteristics of the mine are sufficient to encourage further efforts toward development and if the owners will permit a suggestion I would say that they should at least drive the shaft to double its present depth before abandoning so promising a prospect. The Snow Mine is specially exempt from rebellious elements and when the owners succeed in striking pay ore they may rest assured that the output will be "free-milling" and that its reduction can be performed by the economical wet process.

Very Respectfully,

W. F. STEWART,
Geologist.

Bangor, Me., Oct. 31, 1879.

It is proper to state in addition to the above that Prof. Stewart's predictions are becoming verified. Already at the depth of twenty feet, the vein has increased in width to eleven feet, the clay seam still continues, the black slate is giving place to

gold-bearing quartz, the various mineral streaks appear to be consolidating, and the whole mass is mineralized to a much greater extent than at the time the Professor made his report, principally with nickel, but also carrying lead and silver with small traces of iron.—[Ed.]

[From the Economist.]

The Copper Mines of Lake Superior.

PAPER NO. 1.

Copper mining on Lake Superior commenced in 1845. Prior to this date copper had been obtained throughout the world in the form of sulphuret. The discoveries of Lake Superior were of native copper, which was a novelty in copper mining, and so improbable, according to all geological precedents; that much doubt was expressed by scientific men in regard to its reality. The facts were, however, abundantly proven. The distribution of this native copper, which seemed such a geological wonder, was principally in masses of various weight; barrel work, which is strung together in adhering rock, like roots of a tree in the soil, and "stamp stuff," which is disseminated through the copper bearing rock in small particles, known among miners as "shot copper." In these three forms the native copper of Lake Superior is distributed.

The first mine from which profitable results were obtained was the once famous Cliff Mine, then worked by the Pittsburgh and Boston Mining Company, holding its office at Pittsburgh, Penn. During several years this mine paid large dividends, and actually returned the sum of \$2,230,000, upon an expenditure by the stockholders in assessments of \$110,000. Following this came the Minnesota, which paid dividends amounting to \$1,750,000, upon a total expenditure by the stockholders of \$436,000. The product of these mines was principally mass copper and barrel work, but little account being made of the stamp stuff, which was wrought at that time under slow and expensive processes. The masses produced by these mines were of extraordinary size, and the respective veins were so rich that great excitement was created. The largest mass was found in the Minnesota, and weighed more than five hundred tons, producing about ninety per cent of ingot copper, but many masses weighing from fifty to two hundred tons were found in both mines.

These great successes, after some years of persistent mining and the expenditure of large sums of money, stimulated mining enterprise in the Lake Superior copper district to such an extent that locations contiguous to either and supposed to be carrying the same veins were eagerly taken up and the shares bought by the public in the reasonable hope of similar results. The National and Rockland, on either side of the Minnesota, and the North American adjoining the Cliff, sold at very high prices, and a crowd of adventurers and speculators, taking advantage of the excitement, located upon more distant lands upon the same mineral range, in some instances having actually very good surface indications, and in others but little more than a mere location. These new mines were floated upon the Boston Stock Market, and many of them were honestly worked by the managers, who shared in the general feeling of confidence created by the profitable results from the Cliff and Minnesota. Others were equipped and partially opened, with but little real basis for the expenditures made.

The amount of assessments levied by some of these companies will give an idea of the sums paid out upon mines, some of which have not yielded a dollar in dividends, although in some cases a considerable amount of copper was taken out. Among them are the Albany and Boston, which expended \$615,000; the Amygdaloid, \$500,000; Bay State, \$385,000; Bohemian, \$343,000; Flint Steel River, \$244,000; Hancock, \$570,000; Huron, \$500,000; Isle Royale, \$1,010,000; North Western, \$227,000; Norwich, \$220,000; Pennsylvania, \$500,000; Phoenix, \$820,000; Rockland, \$340,000; Sheldon, \$400,000; Pewabic,

\$385,000; Star, \$225,000; Superior, \$220,000; Toltec, \$420,000; Calumet and Hecla, \$1,200,000; Pittsburgh and Boston, \$110,000; Minnesota, \$436,000; Quincy, \$200,000; Central, \$100,000; National, \$150,000; Franklin, \$320,000; Ridge, \$400,000; Copper Falls, \$540,000; Atlantic, \$978,500; Osceola, \$880,000; Houghton, \$1,050,000; Allouez, \$864,354; Schoolcraft, \$420,000; Delaware, \$300,000; Mesnard, \$170,000. Such was the confidence in final results, and especially in such mines as the Hancock, Huron, Rockland, Sheldon, Isle Royale, Phoenix, and Toltec, which produced encouragingly at the start, that money was called for and willingly paid to develop them; and while the managers, living in cities a thousand miles distant, where the money was furnished and the stocks bought and sold, had great faith in ultimate profitable results, and were perfectly honest in their efforts to secure them, they had not sufficient experience at the time to form trustworthy opinions, and were perhaps too sanguine in their expectations. The great bulk, however, of all the money expended in copper mining on Lake Superior, so far as those who directed the companies controlled it, was honestly disbursed beyond question. There was great extravagance in machinery and surface improvements, upon the too positive assumption that brilliant returns would follow and warrant the expense. The general impulse was to push development, the sooner to arrive at a dividend basis, and the mining agents, urged by the directors, expended money with lavish hands.

At this period the difficulties which mining companies are obliged to encounter, were very serious, almost enough, in fact, to discourage mining enterprise entirely. Supplies were obtained with difficulty, and at great expense, from Detroit while copper had to be carried seven hundred miles before it reached the smelting works.

After some years of prosperity, the great Cliff and Minnesota mines, having been opened to a depth which made it unprofitable to work them at the price then ruling for ingot copper (seventeen cents,) were obliged finally to cease operations.

This caused great astonishment and great disappointment, not only to the holders of these stocks, but to the owners of the numerous ventures which had started into life upon the prestige and success of these two leading mines. The usual consequences of an over-sanguine and wide spread speculation followed, and one after another of the copper mines of Lake Superior declined to skeleton figures in the stock market, or faded out of sight. The blow to copper mining on Lake Superior was very severe, and it lingered for some years in a flickering state, only sustained by the tribute system of mining, until very satisfactory results began to be shown on Portage Lake, especially in the Quincy, Pewabic, and Franklin mines. Following this came the discovery and working of the famous Calumet and Hecla, which last has done more to demonstrate the wealth of the copper district than all of the other mines combined.

At this stage, and including the results following during two or three years, the real substantial interest in copper mining commences. The early history of enterprise in that direction has only been sketched, in order to lead up to the practical questions involved in the present consideration of the subject.

Having already admitted that great extravagance attended early mining, it is proper to state that now there is no such objection to be urged. Experience has taught its dearly-bought lessons, and the managers have learned to direct the expenditure of money economically and judiciously. Invention also has come to the aid of mining, and now the slow and laborious process of hand-drilling has been superseded by the use of steam and compressed air. Improved stamps have been added, and various devices for saving the copper and for the more economical handling of the mineral have been introduced, while the means of transporting supplies and copper have been greatly increased. But, perhaps, the most extraordinary result of all is in the character of the product and its treatment,

which have satisfactorily demonstrated that mines which yield but little mass copper, but are rich in stamp rock, are the most productive and profitable. During the years when the Cliff and Minnesota were successfully wrought, a mine which produced only stamp stuff, yielding even four or five per cent. of copper, to the ton of rock, would not have been considered worth working, while now the greatest product by far is obtained from mines producing the stamp mineral almost exclusively.

The mines which have paid dividends are as follows: The Calumet and Hecla, which have paid \$16,350,000; Quincy, \$2,390,000; Franklin, \$240,000; Copper Falls, \$100,000; Central, \$1,440,000; Minnesota, \$1,760,000; National, \$300,000; Ridge, \$160,000.

Of these, the Calumet, Quincy, Franklin, Pewabic and Copper Falls derived their profits almost entirely from stamp Copper, which upon the richest (the Calumet and Hecla) does not average over five per cent of copper to the ton of rock. This is a most extraordinary revolution in copper mining; and it appears still more wonderful when it is added that the Quincy stamp rock produces but an average of 2 4-100 per cent, while the Copper Falls claims but an average of about one and one-half per cent. The fact is thus established that mines economically and judiciously worked, and producing but one and one-half per cent of copper to the ton of rock, or thirty pounds of metal to two thousand pounds of stamp stuff, can pay good returns upon money invested, with copper ruling in market value much below present prices. This fact stands out the most prominently of any in favor of the great value of the Lake Superior Copper Mines, and is by far the most encouraging feature in the history of that district,—demonstrating as it does the practicability of working profitably hundreds of mines which have been partially abandoned, and encouraging attempts to bring many of them to dividend payments by patient development and well considered expenditures. No such stress has hitherto been laid upon this striking fact, but it will impress itself strongly upon all who have followed the history of copper mining to its present development.

The next feature, bearing upon copper mining in its present aspect, is the market price of copper and its probable consumption. The market value of this metal must of course fluctuate, but the minimum of cost can be easily established by the working of former years. Its present cost at the mines varies according to the percentage of ingot copper to the mineral rock; thus, while the Calumet and Hecla may make a good profit with copper at eighteen cents per pound, it would seriously interfere with the profits of some, and oblige others to cease operations entirely. This is an argument which applies to all industrial enterprises—profits always being regulated by supply and demand to a large extent. At present, however, the demand for copper throughout the world, its increased and increasing use for various purposes, and the small gain in the product, point to a price sustained to paying points for some years. In this connection it is worthy of note that Lake Superior copper, from its better quality and adaptability for special purposes, commands a price from three to four cents per pound higher than that imported. It is a well-known fact, also, that the consumption of this metal has been stimulated to a very large extent by the various manufacturers.

Having thus stated briefly the salient points of this great interest, it is not out of place to note their bearing upon the small and comparatively unfledged concerns which have so long lingered in doubt, and which are occasionally brought out in the stock market as competitors for public favor.

It is somewhat unpopular to express any ideas in favor of these much abused concerns, called, in street parlance, "low-priced coppers," and much of the criticism bestowed upon them in former times has doubtless been just; but the facts developed within a few years, and to which brief allusion has been made, cannot be pushed aside by sneers which are based upon ignorance. The pioneers at Lake Superior were at first

assured by eminent geologists that the existence of copper in a native form was impossible; but they persisted, notwithstanding, and the mines are developed facts, stronger than geological theories. So the mines which are turning out millions from stamp work, controvert the positive opinions of some years since, that stamp rock yielding but a percentage of from one to five per cent could not possibly pay.

LODES, LEADS AND VEINS.

[We earnestly request superintendents of mining operations to send in from time to time such information and actual facts as shall assist in showing up their properties, together with specimens of ores, maps, etc., which will be on exhibition in our office. We wish to make this department as complete as possible and in order to do so, we must necessarily have the co-operation of all who have mining works in charge. It is of the utmost importance, however, that correspondents should deal with actual facts rather than probabilities.]

NOROMBEGA.—The shaft is down about 18 feet. The ore is rapidly improving and showing sulphurets of silver.

HAMPDEN.—The engines and boilers have arrived and the new machinery is working very satisfactorily. The work of sinking the shaft has been renewed with activity and two crews are now employed.

LAWRENCE.—A sample of ore from the Lawrence mine has been assayed at the Maine State Assay office in Portland with the following result: Gold \$5.15, silver \$34.20 and lead \$45.60, total \$84.95.

AMERICAN UNION.—The American Union Silver Mining Company of Hancock was organized on Wednesday at Bangor with the following officers: President, James F. Davis, Ellsworth; Vice-President, Harvey L. Jewell, Bangor; Secretary, Charles E. Field, Bangor; Directors, James F. Davis, Ellsworth, A. P. Clark, Bangor, Harvey Jewell, Bangor, Colin McKenzie, Ellsworth, Wm. B. Campbell, Ellsworth, J. Henry Smith, Bangor. Capital stock, \$500,000; 100,000 shares, par value \$5.00; treasury stock 30,000 shares. It is intended to commence and push work immediately. The property joins the Western Union mine in Hancock.

PENOBSCOT.—The Penobscot Silver Mining Co., has recently been organized with the following officers: President, W. M. Wardwell; Treasurer and Secretary, A. E. Varnum; Directors, Josiah Varnum, Sabine Hutchins, Joseph D. Leach, W. M. Wardwell, A. E. Varnum, Wentworth Wardwell. The Company own the mineral right in about 600 acres in the town of Penobscot.

GRANGER.—This is a recent organization and the property consists of twenty acres of land near the head of Blue Hill Bay. The capital is \$500,000 in \$5 shares, with 40,000 shares in the treasury. Following are the names of the officers: President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill, Me.; Directors, Henry N. Stone, Dexter H. Follett, Brownell Granger, George G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.

SILVER REEF.—The supplies are on the spot and the black-smith shop will at once be erected.

ATLANTIC.—Drifting has commenced in the shaft at the depth of 72 feet with the intention of striking the vein which it is now thought is more nearly vertical than was first expected.

STOVER HILL.—A drift is being run from the 100 foot level northward to cut the vein to the north.

TWIN LEAD.—The buildings are about completed. The erection of an ore house is contemplated. The treasury stock is selling for \$3.

YOUNG HECLA.—The sinking of the shaft is progressing rapidly. Some handsome ore has been taken out.

REVERE.—The Revere Silver Mining Co. was recently organized in this city with the following list of officers: President, F. O. Beal; Treasurer, Charles A. Gibson; Secretary, W. Lee Johnson; Directors, F. O. Beal, Hon. F. M. Loughton, A. H. Thaxter, B. B. Thatcher, Geo. W. Knight, Ezra L. Sterns, W. J. Webb, of Bangor, A. R. Joy, Ellsworth, and A. H. Kendall, Boston. The capital stock is \$500,000, divided into shares of a par value of \$5 each, with a treasury fund of 30,000 shares and \$20,000 cash. The property of the company is located at Blue Hill Neck on the shore of the bay, and embraces 1200 feet on the veins. Two large veins extend across

the property, and where they make their appearance at low water mark are thoroughly mineralized with sulphurets of copper and silver. A shaft is to be started immediately, and a mining superintendent of Prof. Stewart's recommendation, from Nevada, has been telegraphed and will take charge of the work immediately upon his arrival. Prof. Stewart's report which is understood to be highly favorable will appear in the next issue of the MINING JOURNAL.

DEER ISLE.—The stock of this company has taken a sudden and most astonishing rise during the past week going almost at one jump from \$1.25 and \$1.50 to \$3.50. Nor is this the result of any manipulation or nursing, but seems to be a legitimate rise caused by the rapidly increasing quantity of wonderfully rich ore at the mine. This contains native gold, native silver, silver glance, galena, copper pyrites, sulphuret of nickel, zinc, very little iron, and several combinations which have not yet been determined, the whole assaying upwards of \$500 per ton. We shall give further information concerning this valuable property next week.

ACTON.—The most favorable reports come from the Acton. Portland Acton, Boston Acton and Forest City. The work on these mines has been steadily pushed along. Mr. S. J. Dickson, one of Comstock's best mining superintendents, has been engaged for these mines and will probably be here the middle of March. —[Argus.]

MAINE ACTON.—The Maine Acton Silver Mining Company was organized Saturday (under the laws of the State) by prominent business men and capitalists of Saco and Biddeford to develop a mine already purchased upon the famous Acton lode of silver and lead. They start out with five prospects, having purchased their land for cash, and plenty of working capital in the treasury, and intend to commence sinking a shaft at once, before offering any stock. Subscriptions for a limited amount of the stock can be had at 5 per cent by applying to the officers or directors of the company for twenty days only. The capital stock of the company is \$500,000. The number of shares 100,000; par value \$5, full paid and unassessable. Twenty-five thousand in the treasury. The following were elected as officers of the company: President, Geo. F. Calef; Treasurer, Ferguson Haines; Secretary, Frank Foss; Directors, Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer of Biddeford; Superintendent, Jere. G. Shaw. —[Biddeford Times.]

BULLION.—The subscriptions to the Bullion Mining and Milling Company will close March 15th instead of March 31st. This company will do all the concentrating for the various mining companies on the Acton lode. It is necessary in every mining camp to have one company which will take the ore and the Bullion company will be organized for that purpose as well as mining. They own 600 feet. Mr. J. W. Douglass, an old Nevada miner, is now sinking a shaft. —[Sunday Sun.]

EL DORADO.—The El Dorado Silver Mining Co., of Acton, was recently formed in Portland with a capital of \$500,000 in shares of a par value of \$5 each. The following is a list of the officers: President, M. S. Gibson; Treasurer, C. D. B. Fisk; Secretary, N. S. Gardiner; Directors, M. S. Gibson, C. D. B. Fiske, John C. Small, Chas. J. Chapman, James W. Deering, Ed. C. Gardiner, Fred T. Meaher.

MORRIS.—The Morris Silver Mining Company starts with \$20,000 cash and 30,000 shares of stock, par value \$5, in the treasury. The company has 600 feet on the Acton lode, and is the next property to the Bullion Mining and Milling Company, and 1400 feet below the Acton Silver Mining Company. The company will be organized with a capital of \$500,000, divided into 100,000 shares, par value \$5; 30,000 shares in the treasury.

Nuggets.

A plumbago mine is reported in northern Penobscot.

The Dirigo Copper Mining Company is soon to be organized at Blue Hill.

Hon. John H. Crandon has opened a Mining Exchange office in Columbia Falls.

The Portland & Sullivan Silver Mining Company was organized in Portland on Tuesday.

The mining fever is having quite a run here. The assay office of Fred R. Page is the headquarters of the mining interests, and one of the busiest places in town. —[Rockland Opinion.]

A crew of men will at once commence a cross-cut on the Gray farm—a portion of the enterprise property—to discover the whereabouts of the vein or veins which it is thought must be there.

Press Notices.

We are free to admit that we have in our make-up quite a considerable streak of vanity, and when we receive favorable notice are naturally enough somewhat proud of it. As we wish our readers to share also in our good fortune, we must be pardoned for devoting this week a considerable space to a portion of the many notices we have received, that they may know what our friends of the press think of us.

The mines in Maine have been quietly developed by Eastern capitalists for some few years past, and under their judicious management mining has grown into such great proportions in that State that it now holds a prominent rank among the producers of silver and copper. It is evident from the progress made in this direction that henceforth mining will be classed among the leading interests there; and it is not unlikely that the success which has attended this industry, will soon give birth to a spirit of speculation, which has ever been associated with mining operations.

There are nearly 100 mining companies in active operation. The majority of them are in silver ores, the balance in copper.

Private companies comprise about one-third of the number. The mines are supplied with machinery of the most approved character, and although the shafts have not reached a depth of 800 to 1,000 feet, it is capable of prosecuting the work at that depth.

Old Californians who have returned to their homes in that section are investing and working in the mines, and their opinion is that the mineral deposits are of immense value.

We gather the above general views from the MAINE MINING JOURNAL, a new paper, which the interest of the mines has called into existence. It is ably conducted, is cautious in its expressions, and is a beautiful specimen of typographical art. —[*San Francisco Mining and Scientific Press*.

And now Maine has a MINING JOURNAL. It hails from Bangor, and wants to "exchange." Of course. —[*Colorado Miner*.

The MAINE MINING JOURNAL of Bangor, Me., has been enlarged to a sixteen page weekly, and is devoted to the mining industries of the State. The existence of valuable mines in the Pine Tree State is no longer a matter of speculation, but of fact. There may not be as much excitement created over fresh discoveries in the east as have followed them in the west, yet the profits to be derived from legitimate workings of those in the east will not be in any mean proportion to the profits derived from them in Colorado or Nevada. —[*Bridgeport (Conn.) Leader*.

The MAINE MINING JOURNAL is the title of a new journal published at Bangor, Me., and is devoted to the mining interests of Maine. The copy before us contains some very valuable information on the subject of mining and those of our readers who desire a sample copy can obtain it by addressing the publishers at 28 West Market Square, Bangor, Me. —[*Newton (Mass.) Republican*.

We are in receipt of the first number of the MAINE MINING JOURNAL, which has been started at Bangor. It is to be devoted to the mining interests of that State. It is very neatly printed and the publishers deserve success for their enterprise. —[*Economist*.

The MAINE MINING JOURNAL has been enlarged to sixteen pages. It is a lively, newsy paper, and well conducted. —[*Boston Traveller*.

The MAINE MINING JOURNAL, published weekly, at Bangor, by Messrs. E. M. and W. F. Blanding, is a welcome addition to our mining publications, and gives the latest news from the mining districts of Maine. —[*Boston Globe*.

The MAINE MINING JOURNAL, published at Bangor, has been enlarged to sixteen pages, and is filled weekly with matters of importance to persons interested in mining in New England. It is a very creditable publication. —[*Boston Advertiser*.

Here, too, is the MAINE MINING JOURNAL, a handsome quarto of sixteen pages, edited by Mr. E. M. Blanding, of the *Commercial* and Mr. W. F. Blanding, and published weekly. It is entirely devoted to this business, and deserves to be a great success. The latest authentic news from all the eastern mines it makes its specialty. —[*Boston Herald*.

The MAINE MINING JOURNAL, published at Bangor, has met with such flattering success that its publishers have enlarged it from twelve to sixteen pages. It comes to us this week fairly bristling with mining news, and containing some well written but not highly colored editorials on the mining industry of Maine. It also has a map showing the location of some of the principal mining properties in the Blue Hill district, and promises, from time to time, to publish others descriptive of the various mining belts of the State. The editors of the JOURNAL are Messrs. E. M. and W. F. Blanding, and the business manager is

Mr. E. H. Dakin, all wide-awake young men, who are devoted to their work and merit the success they are achieving. —[*Boston Post*.

We have received a copy of the MAINE MINING JOURNAL published at Bangor. It is a very neat and bright looking weekly and is edited by two young men formerly of Saco, both well known in this city. Will F. and E. M. Blanding. The mines of Maine are beginning to attract the attention of all classes. Upwards of fifty mining companies have been incorporated, with a total capital of nearly \$25,000,000, and several thousand men are finding employment. The JOURNAL will no doubt be successful as it is supplying a want that is increasing rapidly. —[*Biddeford Times*.

The MAINE MINING JOURNAL, edited by E. M. Blanding, is a handsome 12 page paper, published at Bangor, and looks as if it had come to stay. —[*Portland Advertiser*.

The MAINE MINING JOURNAL, a handsome 12 page paper, comes to us from Bangor. It says that among the unbelievers it has met, not one has ever visited the mines, while every one who has seen the properties is firmly convinced of their value and permanence. —[*Portland Transcript*.

The MAINE MINING JOURNAL, published at Bangor, has been increased in size from an eight to a sixteen-page paper. It is a well edited paper. —[*Portland Argus*.

The MAINE MINING JOURNAL has become a sixteen page paper, and is in many respects improved. It is an able representative of the mining interests of the State, and of great value to all who are concerned in the new industry. —[*Portland Press*.

The MAINE MINING JOURNAL published in Bangor, and edited by Mr. E. M. Blanding, has been enlarged to 16 pages and much improved every way. —[*Lewiston Journal*.

In its enlarged form of sixteen pages the MAINE MINING JOURNAL, published at Bangor, and edited by E. M. Blanding, has become an important addition to the press of the State. To those interested in Maine mines and mining affairs the JOURNAL will prove a valuable if not an indispensable publication. It not only treats exhaustively of its special subject, but also gives a large amount of miscellaneous information and reading. —[*Lewiston Gazette*.

This week the MAINE MINING JOURNAL comes to us enlarged to sixteen pages. It is crowded with information and gossip about mining matters. All who are interested in the matter of developing the mineral resources of the State should subscribe. —[*Kennebec Journal*.

The MAINE MINING JOURNAL published in Bangor and edited by E. M. Blanding has been enlarged to 16 pages, and much improved every way. To those interested in mining affairs of Maine the JOURNAL should be a welcome visitor and we doubt not will become such. The JOURNAL contains excellent articles and valuable information upon the subject of mines and mining, besides a large amount of miscellaneous reading. —[*Maine Standard*.

The MAINE MINING JOURNAL, which was started in Bangor a few weeks since in the interest of the mines of the State was last week enlarged to sixteen pages, and we are glad to know that it is meeting with well deserved success. The editors are E. M. Blanding the enterprising local editor of the *Bangor Commercial* and W. F. Blanding, who we never had the pleasure of meeting. The paper however shows them to be both hard workers and it is pleasant to know that their labors are appreciated. —[*Somerset Reporter*.

The MAINE MINING JOURNAL published in Bangor, and edited by Mr. E. M. Blanding, has been enlarged to 16 pages, and is meeting with flattering success. —[*Piscataquis Observer*.

The MAINE MINING JOURNAL, published at Bangor, and edited by E. M. and W. F. Blanding, has recently been enlarged to a sixteen page paper. Its business is evidently on the increase. Those who wish to keep posted on the mining interest of Maine, should subscribe for the JOURNAL. Price \$2.00 per year, in advance. —[*Newport Times*.

The MAINE MINING JOURNAL, published at Bangor, and edited by E. M. and W. F. Blanding, has recently been enlarged to a sixteen page paper. Its business is evidently on the increase. Those who wish to keep posted on the mining interest of Maine, should subscribe for the JOURNAL. Price \$2.00 per year, in advance. —[*Dexter Gazette*.

With its last issue, the MAINE MINING JOURNAL is enlarged to sixteen pages, double its former size. Its mechanical execution is excellent, as is also its editorial management. Although this is a new field, Mr. E. M. Blanding, the leading editor, fully sustains his well established reputation for enterprise and ability as a journalist. Mining matters are now, and will for some time, undoubtedly, attract considerable attention in this State, and it is a matter for congratulation among those that are inter-

The MAINE MINING JOURNAL, published in Bangor, and edited by Messrs. E. M. & W. F. Blanding, is doing an excellent work in educating the people of our State to a correct understanding of its recently discovered mineral resources. To those who propose to engage in the work of developing these resources, the JOURNAL is indispensable, as furnishing in the most concise form the ascertained facts regarding all the Maine mines and all reliable news concerning them; while the casual reader will find a subscription a good investment, since mining has come to be so important an interest of the State that no citizen can consider himself well informed unless he keeps posted upon it. The JOURNAL has been enlarged to 16 pages, and is well conducted in every respect.—[*Rockland Opinion.*]

Name of Companies.	Location.	Recorded.	Capital.
Favorite Copper Mining Co.,	Bangor,	Feb. 26,	\$500,000
Swan Copper Mining Co.,	Franklin,	Feb. 26,	500,000
Pendana Gold Mining Co.,	Portland,	Feb. 25,	500,000
Candace Copper Mining Co.,	Sedgwick,	Feb. 26,	300,000
Early Dawn Silver Mining Co.,	Ellsworth,	Feb. 26,	500,000
Milbrook Silver Mining Co.,	Kittery,	Feb. 26,	500,000
White Star Silver and Copper Mining Co.,	Bangor,	Feb. 26,	500,000
Swan's Island,	Portland,	Feb. 27,	500,000

Blue Hill.....	\$8 75 @	9 00
Boston Acton.....	60 @	70
Portland Acton.....		12
Forest City Acton.....		12
Atlantic.....	1 80 @	2 00
Acton.....	18 @	20
Douglass.....	5 50 @	6 00
Edgemooggin.....	1 75 @	2 00
Fort Knox.....		50
Waukeag.....	@	7 75
Milton.....	@	3 25
Mineral Hill.....	75 @	1 00
Ammonoosuc Copper Mining Co. of Gardner Mountain, N. H.....	80 @	1 00
Deer Isle.....	3 25 @	3 50
Clark Silver.....		10
Young Hecla.....	1 25 @	1 50
Grant.....	2 50 @	3 00
Twin Lead.....	3 00 @	3 50
Robert Emmett.....	2 25 @	2 50
City of Boston (Club Stock).....		1 85
Maine, Acton (Club Stock).....		
Harrington.....		
McFarland.....	1 00 @	1 25
Favorite.....	1 00 @	1 25
Lebanon Acton.....	8 @	70
Milbrook.....		2 00
Norombega.....		65
Stover Hill.....		1 20
Silver Reef.....	60 @	75

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING TUESDAY, MARCH 2, 1890.

[illegible]

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY MARCH 3, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Am. Ind. L. S.	26	26 1/2	...	26 1/2	26	...	26	26 1/2	27	26 1/2	27	...
Allouez. ....	...	23	22 1/2	...	9	9 1/2	21	22 1/2	23	...	25	25
Blue Hill Copper.	7 1/2	...	8 1/2	...	9	9 1/2	10 1/2	...	11	...	10 1/2	10 1/2
Calumet & Hecla.	245	...	245 1/2	...	246	...	245	250	249 1/2	250	249	...
Copper Falls. ....	...	...	...	...	15	13 1/2	...	...	13	13 1/2	13 1/2	13 1/2
Duncan Silver. ....	...	4 1/2	...	4 1/2	...	...	4	...	...	...	...	...
Franklin.	23 1/2	24 1/2	23 1/2	...	23 1/2	24 1/2	23 1/2	23 1/2	...	23 1/2	23 1/2	23 1/2
International. ....	...	...	...	...	55	60	...	...	...	...	...	...
Mesnard.	4	4 1/2	...	4	...	...	4	...	4	...	4	...
National. ....	...	5 1/2	...	6 1/2	...	5 1/2	5	5	5 1/2	5	5 1/2	5 1/2
Oscoda.	45 1/2	...	...	46	...	46	...	45 1/2	44 1/2	46	44	45
Pewabic.	62	62 1/2	61	62	63	...	64 1/2	64 1/2	...	64 1/2	62	64 1/2
Quincy.	39	40	39 1/2	40	41 1/2	41 1/2	41 1/2	...	...	41	...	41
Ridge.	6 1/2	...	8 1/2	8 1/2	...	8 1/2	9	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Silver Islet.	20	21 1/2	20	20 1/2	...	20	...	20 1/2	...	20	20 1/2	20 1/2
Star.	8	8 1/2	8 1/2	3 1/2	3	...	3 1/2	3 1/2	3	...	3	...
Sullivan.	14	14 1/2	13 1/2	15	14	14 1/2	...	...	...	14	...	14

ACTON SILVER MINING COMPANY, ACTON,
Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Bennett, Portland; Secretary, John S. Morris, Portland; Directors: Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.

IVORY LIBBEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL,
Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Laughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.

E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St., Portland Me.

E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING COMPANY,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.

WENDELL HORNE, Supt.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Doile, Manering Emery.

B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon. S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.

A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO., Blue Hill, Me. Incorporated, Jan., 1884.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson of Bangor; Vice-President, John S. Jenness of Bangor; Treasurer, Edward B. Nealley of Bangor; Secretary, John R. Mason of Bangor; Directors—Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.

BOSTON ACTON SILVER MINING COMPANY, Acton, Me. Incorporated, Feb., 1882.
Capital, \$500,000; Shares \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Bennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

CLARK SILVER MINING CO., FRANKLIN, Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth. Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY, Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

DEER ISLE SILVER MINING COMPANY, Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.

CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.

HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY, Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Wm. H. Darling, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Huckins, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING COMPANY, Acton, Me. Incorporated, Jan., 1879.
Capital, \$300,000; Shares, \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors—I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.

W. A. GOULD, Supt.

EAST BLUE HILL GOLD & SILVER MINING CO. East Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.

GEO. W. COLLINS, Supt.

EASTERN STAR SILVER MINING COMPANY, Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, A. F. Smith, Bangor; Directors—A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, I. S. Emery, George Sweetser.

EDGE MOGGIN SILVER MINING COMPANY, Sedgwick, Me. Incorporated, June, 1877; reorganized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors—Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, W. H. Sargent, Wm. R. Page.
A. P. CURRIER, Supt.
Office of Company, 22 Exchange St., Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.

FOREST CITY SILVER MINING COMPANY, Acton, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hor. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Reddon, Portland; Assistant Secretary, H. W. Plukham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Baker, James E. Sturges, Benjamin Barnes, Jr.

GARDNER FLOYD, Supt.

FORT KNOX SILVER MINING COMPANY, Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.

A. R. FELLOWS, Supt.

FAVORITE COPPER MINING COMPANY, Blue Hill, Me. Incorporated, Feb., 1884.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill; Secretary, Henry I. Billings, Blue Hill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, E. M. Hersey, I. S. Emery.

FRANKLIN SILVER MINING COMPANY, Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Laffan, Jeremiah Wooster.

GOULDSBORO SILVER MINING COMPANY, Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.

W. J. VALENTINE, Supt.

GARDNER MOUNTAIN COPPER MINING CO. Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 5000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GRANT SILVER MINING COMPANY, Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GLOBE SILVER MINING COMPANY, Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

HAGAN SILVER MINING COMPANY, Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

HAMPDEN SILVER MINING COMPANY Hampden, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 200,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, W. H. Strickland, C. F. Bragg, F. W. Hill, J. P. Tucker.

CHARLES DUNTON, Supt.

HARRINGTON SILVER MINING COMPANY, Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.

WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.

LEBANON ACTON SILVER MINING COMPANY, Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.

LADY ELGIN COPPER MINING COMPANY, Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddell, of Boston; Arthur S. Newman, of Portland. Roderice H. Candag, of Blue Hill.

EDWARD B. SMITH, Supt.

MILLBROOK SILVER MINING COMPANY Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.

SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY, On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAR, Supt.

McFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLaughlin, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

MINERAL HILL MINING COMPANY.

Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.

President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 30,000 Shares.

President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler. WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund Shares.

President, Weston F. Milliken; Treasurer, James L. Racklin, Secretary, Chas. D. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.

President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. E. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndal Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund Shares.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 28,000 Shares.

President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughron, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; H. B. Darling, Blue Hill.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
on the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.

President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Richards.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.

President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.

President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.

Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WHITE STAR SILVER & COPPER MINING CO.
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Hon. H. C. Martin, Brunswick; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, F. H. Clergue, Bangor; Directors—H. C. Martin, J. W. Milliken, James Adams, W. H. Darling, Parris G. Merrill, F. H. Clergue.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

Norombega Silver Mining Co

The first (limited) installment of Treasury Stock is now offered to the public at 60 cents per share. Work is progressing rapidly at the mine and fine looking ore is being taken out from the vein which is eight feet wide at the present depth.
W. F. HUBBARD, Treasurer.

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Maine Acton Silver Mining Co.

Organized under the laws of the State of Maine. Capital Stock, \$500,000; Number of shares, 100,000; Par value, \$5.00; full paid and forever unassessable; Treasury Fund 25,000 shares.

Organized February, 1880.

This Mine is situated on the Acton Lode, and starts out with good prospects. The first assays of mineral were made from surface specimens taken from this lot. The land has been purchased for cash, and sufficient capital subscribed by the incorporators to commence work. Contracts are already made for March 8 h. Subscriptions will be received for a limited amount of the stock for 20 days only, at 25 cents.

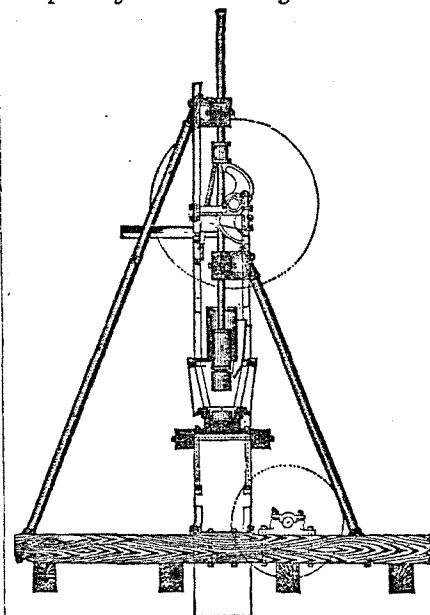
Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer, of Biddeford; Supt., Jere. G. Shaw.

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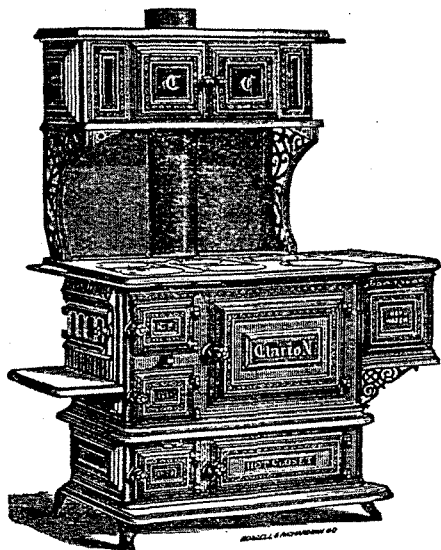
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William H. Darling of Blue Hill, the present owner of the above described property, offers it for sale upon the following terms:

He proposes to form a joint stock company, under the laws of the State of Maine, said company to have a capital of \$500,000, to be divided into 100,000 shares of par value of Five Dollars each, which are to be forever unassessable. Said W. H. Darling agrees to put into the Treasury of the company so formed, 25,000 shares of the capital stock of the company, and nine thousand dollars (\$9,000) in cash; and he offers, of the remainder, 45,000 shares for sale at one dollar and eighty-five cents (\$1.85) per share. When 45,000 shares are sold, the company shall be organized, and said Darling agrees to give the company a perfect title to the property and a warrant deed.

feb4

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Arr. Bangor.....6.45 A. M. and 2.50 P. M.
Leave Bangor.....10.00 A. M. and 7.15 P. M.
Arr. Bucksport.....11.30 A. M. and 8.30 P. M.

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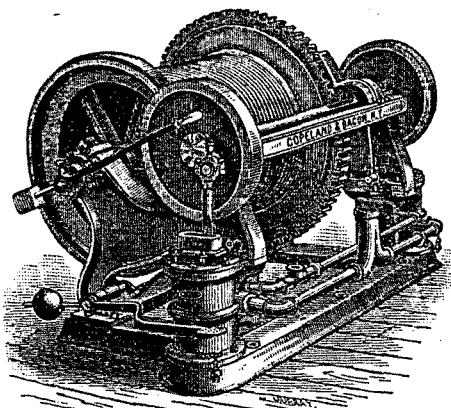
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[Entered as second-class mail matter.]

Vol. I. No. 13.

BANGOR, MAINE, MARCH 26, 1880.

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February 26, 1880.

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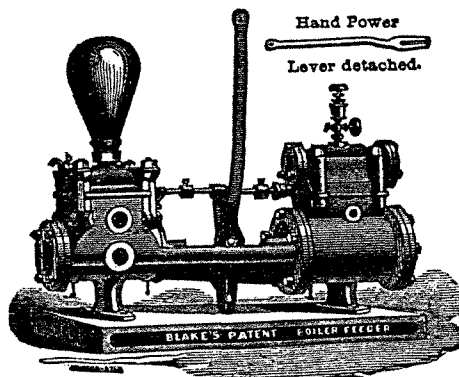
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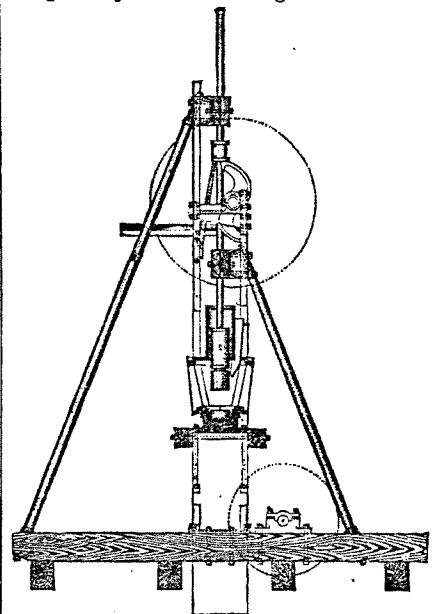
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PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MARCH 26, 1880.

GOLD ON THE CANADA BORDER.

Newspapers, practical miners and people generally throughout the country are becoming deeply interested in the rapid and unexpectedly rich developments of the mineral resources of Maine. The wealth of the deposits of silver, copper and lead is apparent in many of the mines now being worked and numerous other excellent prospects are continually being brought into notice, and find ready hands and purses for aiding in their development.

In view of the recent interest which has been awakened in Canada by fresh discoveries of gold in the Chaudiere region, the developments soon to be made along our North-Western border will attract much attention. Probably very exciting times are close upon us and will be ushered in as soon as the disappearance of the snow permits active prospecting.

The existence of gold in the beds of streams on each side of the range of mountains forming the boundary between Maine and Canada denotes the presence of the quartz matrix in those hills, and thorough search by experienced prospectors is to be made for the veins containing the gold. Prof. Hitchcock of Dartmouth college says in speaking of this auriferous region, "I have no doubt that careful search for the veins will be rewarded." A recent editorial in the Boston Herald on the subject says: "As soon as the snow is off the ground there is going to be such a stir about gold as New England never saw before. The existence of this metal in the Lake Megantic region is indisputable." Canadian newspapers indicate preparations for largely extended operations on that side of the boundary this spring, and active measures are in progress for solid work on this side of the line where the facilities are greater for organized efforts. Shrewd men of enterprise and experience are securing properties along the border in Maine before the inevitable rush of prospectors and the excitement of fresh discoveries enhance values.

The International or Lake Megantic R. R., will undoubtedly soon be extended into Maine and is to cross the border at the most promising part of this region directly east of

Lake Megantic. The early completion of this road will aid largely in the development of the mineral and timber resources of the frontier. There is every indication of lively times in that vicinity the present season.

Quite a large number of persons who pretend to be interested in Maine mines have expressed surprise at the favorable nature of *all* of Prof. Stewart's reports. Upon being asked what grounds they had for believing them all favorable, they could only reply that all *they had ever seen* were favorable.

Prof. Stewart has made many unfavorable reports since his sojourn in Maine, but as they are solely the property of the parties who employed him, it is not at all surprising that the public have never heard of them. We have now on our table two of his recent reports which are of this character, and with the consent of the owners, shall publish extracts from them next week.

For several weeks the crowded condition of our columns has compelled us to omit a large amount of correspondence, mining news, book notices, tables etc., which we would gladly have inserted had it been possible to do so. We propose to put a stop to this annoyance, at least for the present, by adding four more pages to the JOURNAL, commencing with our next issue.

Personals.

SUPT. SHOENBAR returned to the Milton from Boston on Monday last.

PROF. W. F. STEWART returned to Bangor from Blue Hill on Monday last.

PROF. F. L. BARTLETT has been on a visit to Blue Hill during the present week.

PROF. C. H. HITCHCOCK, of Hanover, N. H., has gone to Oregon to examine a property for Eastern men.

FRANK STEWART would be likely to astonish the Republicans of Nevada if the Democratic party should happen to enter him for the Congressional sweepstakes.—[*Virginia (Nev.) Chronicle*.]

MESSRS. NICHOLS, WILLIAMS & Co., have opened an office at No. 22 Water Street, Boston, for the purpose of dealing in stocks of Maine mining companies. The members of the firm are well-known business men of Bangor.

Gold and Silver Mining in Northern New England.

BY PROF. C. H. HITCHCOCK.

An address delivered before the New York Bullion Club, Tuesday, March 9, 1880.

PART II.

MAINE SILVER MINES.

So much interest has been awakened in Maine by the mines that a new periodical has started up entirely devoted to them. It is published at Bangor, the MAINE MINING JOURNAL. In that I find a list of the incorporated and private companies doing business in the State. In one of its issues I find a list of 70 incorporated and 44 private companies. Of these, 87 have the word silver named in the title, and nearly 100 out of 114, mine this metal. Only four of these companies have land outside of the State limits. Most of the others mine for copper, there being three or four gold companies. The average amount of nominal capital assigned to each company is half a million

or 50 millions of nominal capital employed in the business of mining silver. New companies are daily added to the list.

The ores are of three types: 1st, the silver sulphurets; 2nd, argentiferous galena; 3rd, silver sulphurets or galena mixed with copper sulphurets. We may perhaps treat of them geographically. Beginning at the east we shall then have first, argentiferous galenas cutting upper silurian fossiliferous strata in the eastern part of Washington County, as at Lubec, Trescott and Cutler, reaching to the gold of Cherryfield and Harrington. 2nd, the argentiferous galena of Gouldsboro which is closely connected with 3rd, the Sullivan argentiferous sulphurets. 4th, Blue Hill copper and silver mines. 5th, argentiferous galena with sulphurets of Sedgwick and Deer Isle. 6th, argentiferous galenas near Bangor. 7th, The same ore in the Acton and Mineral Hill region bordering on New Hampshire.

I have not time to describe all these districts and will speak only of those which are most peculiar:

SULLIVAN.

The first mine opened gives a name to this district, where the silver sulphurets predominate, a class of ores not recognized in New England four years ago. The locality adjoins Mount Desert Island in the south-east part of Hancock county. The mines are situated at tide water along the shores of a long crooked inlet having a general northwest trend. The rock consists of Huronian slates and schists bordering granite. The strata dip towards the granite at an angle of 12° - 37° , crossing the vein at an angle, which is inclined 70° . The vein is less than 1000 feet distant from the granite at the surface. Whether it will penetrate the granite several hundred feet below remains to be seen by actual excavation. Veins of granite penetrate the slates in many cases, so that the dividing line between the two kinds of rock must be jagged and irregular. A few dykes of trap penetrate the granite. Some of the granite veins have evidently been formed later than the slates. Porphyry occurs in the neighborhood, and it is not unlikely that the quartzose slates constitute the primitive country rock, which was penetrated by the porphyry, a pure feldspar, in connection with thermal influences, and thus a species of fusion resulted, giving rise to granite.

The first vein was discovered in 1877 below high water mark, and was 10 inches in thickness, consisting of quartz, carrying pyrites, galena and traces of brittle silver. Further investigations led to the discovery of other out-crops of the vein. Seventy-five feet to the south-east the quartz is four feet wide only a yard beneath the beach sand, and the rock invariably yields more than \$200 of silver to the ton upon assay. The ore is stephanite. At about 10 ft down in the shaft sunk at the point of discovery, threads and flakes of native silver showed themselves. At 30 feet depth the vein increased to a width of four feet, consisting of quartz and slates more or less impregnated with silver. This shaft at 85 feet displays a vein 10 feet wide consisting of agatised quartz, conglomerate, quartz and heavy sulphurets, quartz with silver sulphurets resembling those of the Comstock lode, and besides various kinds of slates. Mr. C. W. Kempton has fully described these bands at various depths in a paper descriptive of this region read before the American Institute of Mining Engineers, to which I am indebted for many facts. Drifts have been made at the 85 foot level—110 feet to the south-east and 140 feet to the north-west. Through this whole extent of drift, 250 feet, a mass of ore 9 feet wide has been exposed to view, ready for excavation and hoisting. The shaft has been sunk still deeper, or to 175 feet on the incline of the vein. Further east a second vertical shaft has been commenced, designed to strike the vein at 250 feet down.

Of the silver minerals stromeyerite is most plentiful; stephanite, argentite, and native silver appear in threads and occasional lumps. Ruby and antimonial silver occur rarely. The copper sulphuret, present in small amount, is very rich in silver. Seven thousand tons are in sight in the drift. On the dump it is estimated 1700 tons lie. Six-hundred and fifty feet length of vein are found upon the Sullivan property. Prof. Bartlett's assays of the silver sulphuret give from 67.86 to 220 ounces, the galena 32.62 to 85.05 ounces silver, while antimonial ore is extremely rich, yielding when pure 7,370.35 ounces to the ton. They all contain some gold.

The general line of this vein may be traced for three miles. Adjacent to the Sullivan are the Waukeag and Milton companies, where the developments are less striking. The first has a vertical shaft down 123 feet, designed to strike the vein at 150 feet, and also substantial buildings. The Milton has 1500 feet of the lode and two shafts; one designed to cut the vein at 125 feet. This company has the most pretentious of all the buildings including a mill of 40 stamps nearly completed.

This vein occupies a distinct fissure, and the metalliferous influences segregating the ores from the rocks beneath were probably active when the granite was produced. The course being north-west and south-east, its continuation across a granite band would take the vein to Gouldsboro, twelve miles. The

ores there, though largely argentiferous, belong to different mineral species. The causes are very much the same, and the veins must belong to the same general system. The Gouldsboro' rocks are schistose, frequently calcareous.

The ores occur very nearly in the same manner as at the Sullivan and consist of galena, zinc, copper, iron pyrites and specks of gray copper. Samples show from 10 to 400 ounces to the ton of the silver present. Some of the galena concentrates run up to 408.02 ounces to the ton. At the oldest opening, known as Gouldsboro', there is an open cut 70 feet long, with a shaft 50 feet distant that has been sunk 70 feet which will strike the vein at 125 feet. The heaps show about 300 tons of ore. The Home company has a shaft 75 feet deep, a second 35 feet, and 80 tons of ore, with buildings. There are many other worthy mines in this district, which I have not time to mention. Those familiar with the Comstock lode in Nevada declare that the Sullivan lode closely resembles it.

BLUE HILL.

This is known as a copper region. The metalliferous zone is about three miles long and over 1000 feet wide. The general mineral features are like those of the Sullivan district. I will only say of the copper veins that they are large and promising, much larger than the silver veins just described. Silver sulphurets and galena occur in them, and increase in amount as the shafts are sunk deeper. This fact and the mineral resemblances of the Blue Hill and Sullivan districts, led me, in a paper upon these mines read before the American Association Advancement-Science last year to surmise that the copper might give way to silver at a great depth, so that it would be well for the proprietors to be on the lookout for the change. Subsequent developments confirm this view. Prof. W. F. Stewart's report for the Douglass substantiates this. Also a very recent report from the Douglass says a streak of silver-bearing ore has come in on the hanging wall, running as high as 300 ounces to the ton. This is in drift No. 1 which is less argentiferous than the ore in No. 2.

GARDNER MOUNTAIN.

If I had time I would dwell upon the similar state of things at the Gardner Mountain copper mines in the Ammonoosuc district. So much copper is found there that I do not anticipate its replacement in depth by silver, only that important silver veins will be found. There is also a rich silver lead vein in a lot adjacent to the Dodge farm, now being mined extensively.

THE ACTON BELT.

I was able to take a hasty run through the silver mines of Acton last week in preparation for this evening. This town is in York county and adjoins New Hampshire. The geology of the region was familiar to me as I had traversed the neighborhood sufficiently to color the formations for the geological map of New Hampshire. The rocks are mica schists, often soft, carrying the mineral andalusite or fibrolite. In the midst of these schists large areas of sienite frequently make their appearance as in the edge of Lebanon and Sanford, towns adjoining Acton. It is worthy of note that these two kinds of rock are like those found in Newburyport, Mass., where are the Merrimac and other silver mines.

A section through the middle part of Acton shows a narrow belt of ancient gneiss running north and south for several miles, notably along the west side of Mousam Pond. All the schists of the mining region rest upon this gneiss, with a westerly or southwesterly dip of towards 45° , and it is the presence of this ancient ridge of rock that has elevated the schist, and during the process of upheaval eliminated the metalliferous influences that have permeated the rocks. A suggestive feature is afforded by the character of the boulders to the south and southeast; in Sanford, more particularly, they are intensely ferruginous. In Springvale the soil is everywhere stained by the oxides. It is natural to expect to find mineral veins in rocks that are so full of pyrites, and these loose stones have come from the neighborhood of the Acton mines.

I find a series of mines located upon a large vein of quartz—they commence just in the town of Lebanon and are numbered by lots of 600 feet each. Twenty of these lots are occupied by mines. I will mention them in order, beginning with the first in Acton and proceed from south to north.

1. The Lebanon-Acton. I saw here a quartz vein 8 feet wide, upon which a contract had just been made to sink a shaft 50 feet.

2-3. Undeveloped, belonging to B. Barnes, Jr. of Portland.

4. The Morris lot. Shaft just commenced.

5. Bullion Mining and Milling Company. Here is a cut several hundred feet long, uncovering two veins. A shaft is down 25 feet, well timbered, and contracted to extend 50 feet further. At this depth the company propose to drift westerly to intersect the other vein. They are also erecting a shaft house and propose to set up a Bradford 50 ton concentrating works.

6. The Silver Wave, owned by Cowell and Marshall. Two veins occur here, traversed by two heavy costeans, with a shaft.

7. Originall Acton. This has 500 feet of vein, a shaft house 40x60 feet, Kendall & Roberts engine and hoister, Higley Cornish pump, a shaft of 60 feet depth located upon the easterly vein, 15 feet thick. This property was selected by Prof. F. L. Bartlett, of Portland, for the company on account of its superior location and the richness of the ore.

8. Portland Acton. This has a shaft down 45 feet, well timbered for 30 feet. Last December a costean thirty feet long was cut. About Jan. 1st, they commenced their shaft, finding at 20 feet silver rock assaying \$40 to the ton. The vein proper is only just reached and they now change from the vertical to incline.

9. Boston Acton. This shows the west vein cut six feet close to the brook. On the east side a tunnel 58 feet long is being driven to strike the vein estimated to be 100 feet distant and 75 feet below the surface.

10. Forest City. This company have a shaft 35 feet down, just striking the vein which they now propose to follow in its westerly dip. Engine and pumps are being put in place.

11-14. No work done only prospect.

15. Dirigo Mine. Of this I made more careful examination. The shaft is down 80 feet. At 45 feet having cut through the vein, dipping westerly, the course is on the vein for 36 feet further. The vein is 10 feet wide, of quartz, the upper part white, the lower bluish, separated by a clayey mass, and the dip is less than 30 deg. at the beginning of the incline. A second vein perhaps 50 ft. west will be reached by drifting while the third vein upon the east side of the stream has not been opened. Two hundred tons are on the heap. In general, we may say of the Acton mines, without speaking of several other locations beyond the Dirigo, there are three quartz veins, the one usually mined being 10 feet wide, charged with argentiferous galena, argentiferous mispickel and magnetic pyrites, ordinary pyrites in less amount, besides a little antimonial silver, copper and zinc. These ores need concentration and probably the ten feet can often be reduced to one, which can then be milled or smelted. No lime or alumina is present. The gangue is pure quartz. The lodes are traceable for two miles, perhaps more.

These ores are not of the best character for smelting, being known as refractory or rebellious. The mispickel is argentiferous, often containing twenty ounces of silver to the ton. Numerous assays of the surface ores give \$20 to \$125 to the ton. At the depth of 80 feet the ore yielded in the Dirigo 300 ounces to the ton.

MINERAL HILL.

A few miles distant from Acton in Wakefield N. H., is situated Mineral Hill, with a mine upon it of argentiferous galena. It is a district which embraces the lead and zinc mines at Madison described by Dr. Jackson as the Eaton Mine. At Mineral Hill a large quartz vein crops out at the summit, into which a shaft has been sunk nearly 100 feet. This belongs to a series of veins which I have traced from Oxford County, Me., to Franklin Co., Mass. more than 100 miles. At this property they show unusual marks of disturbances by the injection of cross veins and the consequent introduction of metalliferous products.

The metal bearing part is five feet wide bounded by distinct walls from granite enclosures. The upper half carries argentiferous galena with a little blende; the lower half is auriferous. The surface galena showed \$16, and at 40 feet \$46.57 of silver to the ton. The adjoining formation is gneiss.

CONCLUSION.

I have now shown that good veins of gold and silver exist in New Hampshire and Maine. Have given but a tithe of the facts that might be mentioned. The conclusion naturally drawn is that we have numerous mineral veins capable of being worked profitably under careful management. We claim nothing extravagant. We need only to use the brains for which New England is famous, in the development of these veins, and the country will become materially richer through the auriferous and argentiferous extracts derived from the rocky ribs of her bleak hills.

FOREIGN MINING NOTES.

No. 5.

BY F. L. BARTLETT, STATE ASSAYER.

GEOLOGY OF CORNWALL.

I always had an idea from descriptions that I had read that the geology of the mining region of Cornwall was greatly similar to that of our mining districts, and much to my delight I find after a thorough inspection from Plymouth to Land's End that the idea is not wholly erroneous.

I deem it of vast importance that we should understand the geology of Cornwall from the fact that not only do the silver

and copper mines resemble ours but that the tin deposits are in formations not at all unlike some to be found in the State of Maine. The finding of tin in our State would be an event of the utmost importance and of the greatest value to the State. I never deemed the discovery of tin in our State impossible and now since my visit to Cornwall I not only deem it possible but quite probable. Indeed small quantities of that ore have already been discovered in several localities, notably in Paris, Hebron and Winslow and I am not quite sure that it has not been found at Blue Hill as well.

The ore as it occurs at Cornwall is so unlike anything that we look for in our mines that it would not be surprising if it escaped our notice entirely. When it occurs as a sulphide mixed with arsenical pyrites the ordinary tests would fail to discover it and the only means applicable is the Cornish method of "vanning." From the comparisons that I have been able to make I feel quite confident that should the mines at Blue Hill ever be pushed down deep enough tin will be encountered, and further that its discovery near the junction of the granite and quartzite is now quite possible. In fact the whole region round about Blue Hill is strongly suggestive of tin.

The country of Cornwall forms the south-western promontory of England. Extending down its center from Lancaster to Land's End there are four great "bosses" of granite, the structure of each being similar, consisting of a coarse grained rather feldspathic variety containing the usual arrangement of quartz, mica and feldspar, the only distinctive feature being the prevalence of the feldspar over the other constituents, the mica especially being in the least proportion. The feldspar frequently occurs in large crystals that give it a porphyritic appearance; precisely similar to the coarse granite about the base of Blue Hill Mountain. Resting immediately upon the granite and when not covered by newer rocks, distinctly observable are thick masses of talcose and micaceous rocks, slaty in character. In some instances these are chloritic, but they more frequently pass into a micaceous slate often gneissic from the addition of feldspar. These slates are gradually succeeded by hornblende rocks and are often interstratified with them. These last are frequently covered by serpentine or perhaps more frequently by grey, argillaceous, shaly slates. When the system is complete these slates pass upwards into arenaceous and calcareous grits traversed by trap dykes and quartz veins.

The strike is conformable to the granite bosses north-east and south-west and all the lines of fractures or fissures of any considerable degree of size follow the granite but are crossed by innumerable smaller crevices or cracks, the whole forming a net work of lodes so frequently seen in the Cornish mines. Briefly the formation seems to consist, according to the Cornish system, of first the Laurentian granites; secondly the micaceous and talcose slates of the Cambrian; thirdly the hornblende and porphyritic rocks of the Cambro-Silurian; fourthly the argillaceous slates of the Silurian system, passing gradually in the upper parts into the Devonian. Any one at all conversant with the geology of Maine cannot fail to notice the similarity of formation with that of Cornwall, indeed taking the section from Blue Hill Mt., across the strata to Sedgwick we have exactly the conditions; granites, talcose, slaty quartzites, hornblende slates and gneissic rocks, argillaceous slates succeeded by the serpentine of Sedgwick and Deer Isle. Other sections in the State are similar. Nearly the same conditions are filled round the granite boss of Sullivan and also those of Sumner and Oxford County.

The great mining districts of Cornwall are grouped round these granite bosses, the most productive being on the south flank and in the oldest stratum next the granite. The zone of productive mines is about 12 miles wide. The ore deposits follow this order: in the upper clay slates, lead and silver in the hornblende and micaceous rocks, copper, and finally when approaching the granite shading off into tin. The lodes invariably penetrate all these formations passing directly through each, and the ores change for each in order, lead, copper and tin. It is rarely the case that a lode will follow the line of contact but passes directly through each series. Nearly all the copper mines are gradually converted into tin mines on passing downward into the granite. Indeed with a few exceptions the tin mines were all originally worked for copper, some of them being now in a state of transition and therefore yielding both tin and copper.

The copper ores rarely are profitable in the granite while the opposite is true of the tin. As trap dykes and basaltic rocks are common in and about our mining districts so are they in the mining districts of Cornwall. Dykes of greenstone, locally termed "elvans," traverse the rocks in all directions. The lodes are sometimes more productive near these "elvans" when composed of soft greenstone, but when composed of hard compact intractable rock they are usually pinched and unproductive. Tin is rarely found on the surface in quantities to be productive; as a rule it is found productive in the

granites at 100 feet in depth, but in the contact copper veins depths of 500 and 1000 feet are frequently necessary to reach good tin ore.

The general direction of the ore bearing lodes in Cornwall is east and west: too great a variation, it has been noticed, resulting in unproductiveness. It will be seen then that here are two more remarkable features similar to Blue Hill—the lodes are richest on the south side of the granite bosses, they run nearly east and west; the dip is also towards the south which is true of Blue Hill. The inclination of the dip or angle varies in Cornwall from 35 to 70 degrees, averaging about the same as the dip of our lodes.

I think I have given enough of the geology of the mines of Cornwall to convince any one of the great similarity in geological points to the mines of Maine. As may be expected the

MINERALOGICAL FEATURES OF CORNWALL

are also similar to those of Maine. The lithological character of the rock determines the ore. In the upper portions are ores of lead containing silver and associated with zinc blende, arsenical pyrites and iron pyrites, with traces of antimony and copper, found in gangue or a matrix of crystalline quartz associated occasionally with calc spar. The next course gives the yellow copper pyrites which is the prevailing ore of copper, but mixed with peacock ore, galena, grey and black ore, with an occasional bunch of ruby and antimonial silver and some of the rarer ores of copper. Intimately mixed with the copper ores is the usual amount of iron pyrites, zinc blende and arsenic; arsenical pyrites by the way, being considered in Cornwall the precursor of copper.

Lower down beyond the reach of atmospheric influences the ore becomes the massive bisulphide or deep yellow copper ore, and this is the kind that holds out and is most productive in metal. Going still deeper or down to a point near the junction of the "killas" with the granite, signs of tin begin to appear, molybdenite and wolfram put in their appearance, then tin crystals, cassiterite and tin pyrites appear, the copper gradually disappearing to give place at the lowest depths to profitable tin ore. The veins are from 2 to 18 feet in width sometimes defined by clay selvages and sometimes not; the ore will be disseminated throughout the gangue and is not often concentrated on either wall, but is occasionally found most abundant in the center of the lode; this latter is particularly true of tin lodes. Many of the copper lodes commence on the surface with "gossan" or earthy reddish ore which is simply decomposed "mundic" so frequently seen in the copper lodes at Blue Hill. This "gossan" is considered an infallible indication of good copper ores. The copper ores are more abundant in the slate or killas having a light blue color; the blacker killas are not productive.

When two lodes intersect each other at an acute angle the ore is more plentiful and acute than on the obtuse side. Oftentimes porphyritic dykes intrude and cause the lodes to contract or pinch. The Carn Brea mine was once abandoned on this account but work was afterwards renewed and now it is very productive. The Cornish miners do not mind a "pinch" or "horse" as they are both frequently met with and it is not an unusual thing for the vein to dwindle down to a mere thread, afterwards to widen and be more productive than ever; such little freaks of nature are well understood by the miner but not so well by the stockholder who frequently gets frightened into a disposal of his shares at a low figure only to find too late that he has been sold as well as his stock.

Next time I hope to be able to give some idea of the mining companies and their manner of conducting business in Cornwall.

CORRESPONDENCE.

Carmel.

To the Editor of the Maine Mining Journal:

Mining in this vicinity bids fair to outrival all other branches of industry. The people of this quiet little town are beginning to realize that somewhere near are vast deposits of valuable ore. Hence prospecting parties are busily at work trying to find the hidden bonanzas, which they are sure exist here. The Harrington mine has opened the eyes of the most skeptical, and forced them to admit that there must be something in it.

Recently a new mine has been opened on land owned by James M. Boyd, which has caused a great deal of excitement in this village. This mine known as the Boyd mine, is located on a true fissure vein, one of the three which cross this property, all having well defined walls inclosing gold-bearing quartz, and varying in width from one to four feet. Specimens taken out at the depth of ten feet have been sent to Prof. Arnold of Providence, R. I., who assayed them, and in his report stated they contained "sixty-three and one-half pennyweights (63 1-2) fine gold, and five and one-third ounces (5 1-3) fine silver per

ton." Prof. Arnold says further, "it is the best showing I have seen in a great while." Specimens of free gold have been extracted from ore taken out of the Boyd mine by private individuals in the village so that no doubt exists in the minds of the owners as to the truth of the assay. Operations have been suspended for a short time, pending the organization of a company, and soon work will be pushed vigorously. This mine is unquestionably one of the richest in the vicinity.

Other mines are in process of development and it is to be hoped they will pan out well. Ore on the farm of J. P. Luce shows very good surface indications; also ore on the farm of Mr. Morton.

Carmel, Me., March 16, 1880.

X. Y. Z.

Dennysville.

Editor Maine Mining Journal:

Mr. J. D. Allan, of this place, has discovered on his land indications of a profitable vein of mineral. The writer has made a superficial examination of a number of specimens taken from the spot near the surface. There would seem to be a good proportion of galena, and the ores of silver and copper. Persons of experience in mining say that in their judgment the specimens taken out promise a vein of ore of unusual richness. One miner of many years experience also reports the quartz found in the same locality to be an auriferous quartz equalling any east of the Rocky mountains in quality. The specimens shown are from "Birch Hill," about a mile and a half northwest of the post office.

Dennysville, March 13, 1880.

Penobscot Silver Mine.

Editor of the Maine Mining Journal:

Allow me space in your next issue for a brief notice of the Penobscot mine, a property now creating excitement wherever its character is known. Its location is half a mile from the stage road between Blue Hill and Bucksport, six miles distant from the former. The owners, incorporated as the Penobscot Mining Company, are chiefly of Boston. The writer only is resident here. Ten men are now employed. Smith's shop, office, dressing room for men, and other necessary buildings are erected. The shaft is down sixteen feet. Thus the solitude and wilderness before apparent are being changed to a scene of activity, industry, wealth, and even beauty. Old residents scarcely know the place.

This mine is unique in its character. Experts from the great mines of the West affirm they have seen nothing like it east of the Rocky Mountains. Some of its novel features are the magnitude and symmetrical structure of its ledge and lode, the walls of its fissure and its gossan and surface crystals. But no description can do it justice. It must be seen to be appreciated, and an invitation is hereby respectfully extended to geologists and scientists generally, and also to teachers in mining colleges, and the superintendents of mines to inspect one of nature's most perfect formations. All the surface conditions and requirements of a true fissure lode of vast extent are present. No expert has yet professionally examined it, nor has an assay yet been made for metal. The quartz is found increasingly mineralized at every blast, and its appearance makes it strongly probable that these base surface metals are associated with some portions of the more precious. The beautiful crystals, though of no metallic worth, are a great attraction, and are of great value as cabinet specimens. The company's offices are at 43 Milk, cor. Arch street, Boston. The writer may be seen at Blue Hill, or at his cottage on the mine.

S. ANNEX.

Blue Hill, Mar. 22, 1880.

Blue Hill.

Editor of the Maine Mining Journal:

In justice to myself as a correspondent of your valuable paper I should like to say a few words in reply to the explanation(?) of "Veritas." 1st—the gentlemen of said company, I have no doubt, intended to act in good faith, and as my former article did not refer to them I do not know why "Veritas" should defend them. 2nd—two of the purchasers of the bond (owning but a small part it is true) were shown some handsome specimens (said to be) taken from the property, and supposing it had been prospected thoroughly, did not go to see it, but after paying their money enquired of me in relation to the place, and one of them was willing at that time to sell out cheap. 3rd—as to said business man having "changed his mind." Not long since he said to a friend of mine something like this "Well ———, before long I shall be able to sell you

fellows who want to throw away your money all the stock you want."

Now it may be that "V" and I mean two different men when we speak of "a prominent business man." If so, all right; if not, and there is need of further communications from either of us, I would suggest that they be sent to you and published as an extra to your paper, he and I each paying one half of the expense rather than have them crowd out *valuable* matter which might be the case if they were inserted.

The mines here are most of them putting on more men and are getting ready for a fresh start with the opening of spring.

With one or two exceptions our mines are provided with men of good judgment and ability as superintendents. It will be difficult before long to get many men in this town to take charge of our mines now opening who will have had any experience in mining. What we need is a few more men from the West, such as Superintendent Duff, who will make every dollar expended count, and we must have them.

Men are at work prospecting on the Charles Clough place where a very good showing has been found, and Boston parties are soon to commence operations on the Parker farm. Both of these places are on the shore of Blue Hill Bay, and lay, one north and the other south of the "Jersey," which is looking finely.

There was a rumor circulated about town last week that Lorrillard (the tobacco man) had two agents here to inspect the mines, and that they had telegraphed for him to come at once. Owners of private mining properties were "up in the air" straightway. "The Kingdom" and North Blue Hill are at present the seats of extensive bonding transactions. Every owner of a farm in either of these districts expects to find, if he has not already found, indications of mineral on his property. It is only just to say that some have a very good show which they are willing to dispose of at fair rates. Silver has been discovered on the "Green farm" and it is proposed by the owners to open up at once.

We are going to have here (thanks to Col. Darling) a much needed mining exchange where information can be obtained and samples seen of all the mines in this vicinity. It is to be under able management and will assist very much in showing up our mines.

All of the pioneer mines are getting out more or less ore, and anyone cannot fail to be impressed with the idea that mining here will pay if properly managed—if they will but take time and carefully examine the dumps of the Douglass mine. We would like some of our wise (?) legislators to give us a call and look into the matter a little between this and the birth of their next speech. There is a saying "a fool will be a fool" but I see no earthly reason why a well educated law maker should be as ignorant as some have lately shown themselves to be.

"NEMO."

Blue Hill, Me., March 22nd, 1880.

LODES, LEADS AND VEINS.

NORUMBEGA.—A shaft 7 feet by 14 feet in size has been sunk 26 feet. The vein is considerably wider than the shaft and the ore shows decided improvement in quality and quantity.

LAWRENCE.—The mine is looking well and some excellent ore has been taken out. The vein is widening and arrangements are being perfected, by which the shaft will be made perfectly dry. For this purpose the directors voted to have the shaft timbered, surrounding it with cement and filling in with blue clay, so that all the surface water will be kept out. The directors also voted to erect at once an ore house.

CONSOLIDATED HAMPDEN.—The shaft has reached a depth of 110 feet. Considerable quantities of ore of a high grade has been taken out of the shaft.

OLDTOWN.—The Oldtown Mining Company was organized into a corporation Thursday at Oldtown. President, Daniel M. Estabrook; Vice President, Allen L. Sawyer; Treasurer, Chas. A. Bailey; Secretary, Jas. W. Waldron; Directors, Joseph L. Smith, Lewis Simpson, James Y. Richardson, Horace M. Burnham, Edwin R. Alford. Capital stock \$500,000; divided into 100,000 shares of a par value of \$5 each; 40,000 shares reserved as Treasury stock. The property of the company is located in the town of Bradley and comprises 500 acres. A shaft is now down twenty-five feet on the vein which is rapidly widening. At the present depth the vein is 9 feet in width.

SNOW.—Mr. Richard Snow, the Superintendent, called on us

early in the week, and reports everything progressing very favorably at the Snow. Mr. Roberts, an experienced mining man now has charge of the operations. The shaft has reached a depth of 33 feet and the ore shows marked improvement.

COMSTOCK.—The Comstock Silver Mining Co., was recently organized at Portland with \$500,000 capital divided into \$2 shares, and the following list of officers: President, Hon. William Wirt Warren; Treasurer, Oscar E. Doolittle; Secretary, R. B. Henchman; Directors, Hon. W. W. Warren, Hon. Samuel B. Noyes, Wm. Read, Samuel J. Noble, G. A. Morse, of Boston, Geo. F. Ropes, of Salem; Dr. S. E. Thayer, of Vinalhaven. The property of the company adjoins the Snow mine in Bucksport. Operations will at once be commenced and pushed vigorously. The shaft is expected to strike the vein at a depth of about 50 feet. The company is a substantial one and ample funds are in the treasury to carry on work for some time.

BOSTON & BUCKSPORT. A company under the above name is about to be organized to operate in the vicinity of the Snow mine, and on the same vein. The owners are prominent business men of Bucksport. A shaft has been started.

EASTERN STAR.—Under the superintendence of Mr. Farrell of Bangor the sinking of the shaft is progressing in a well mineralized vein seven feet in width, and fine looking rock is now being taken out. Treasury stock is for sale at the office of the Secretary, A. F. Smith, Pickering Square.

EGYPT.—A blacksmith shop has been erected. A vertical shaft is being sunk which it is expected will strike the vein at a depth of 25 feet. The vein on the surface is 6 feet in width and shows very well in copper.

ROBERT EMMETT.—The shaft is down 49 feet. A great number of stringers have been cut through and in some of these handsome native copper has been found.

SWAN.—Work is progressing satisfactorily. The shaft has attained a depth of 23 feet, and the vein is continually widening.

GOULDSBORO.—The Gouldsboro mine last week ran into a streak of antimonial silver, assaying \$4000 to the ton, a sample being now in Mr. Dalby's office, 43 Milk street. The shaft is now down 85 feet, and timbered, with a vein 8 feet wide of good ore. The company have contracted to put in a Copeland & Bacon hoisting engine, steam drill and Knowles pump.—[*Boston Advertiser*.]

WEST BAY.—The new opening at Gouldsboro which has been put into a company's hands under the name of the West Bay is showing wonderfully rich ore. It joins the Gouldsboro on the northwest, in direct continuation of that great mine, and has a claim on the vein of eight hundred feet. It consists of two properties, one known as the "Mill lot," the other as the "Rolfe lot," both purchased but a short time since by Francis Worcester. The officers of the company, G. R. Campbell, Wm. Freeman and John W. Coffin, all of Cherryfield, are men to whose integrity and good judgment the most wary of investors would be willing to trust the forwarding of any enterprise. They are among the best known men in Washington county and we are sanguine in believing that they have displayed their usual well known discretion in attaching themselves to the West Bay. On what is called the "Mill lot" above referred to which has a water privilege hardly surpassed anywhere, Mr. Worcester intends erecting concentrating works as soon as laborers and machinery can be got together. What the result of this investment may be is, of course, problematical, but it will at least give the mines in that neighborhood a chance to reduce their ores to marketable shape, and to pay those dividends which unreasoning ignorance is so assiduously howling for.

WEST & SOWLE.—The West & Sowle have sunk their shaft 70 feet, and have commenced to drift toward the bay on the vein. They are working two crews, and taking out a good showing from their vein. The company have sold 2100 shares of treasury stock, and propose to hold the balance.

MORANCY.—The shaft is down 23 feet. Very handsome ore is being taken out, and is improving with every blast.

GRANT.—The shaft is down 76 feet and some ore rich in copper sulphurets is being taken out. The main vein has not yet been encountered.

FAVORITE.—Work has been in progress a fortnight and some good copper ore has been exposed.

TWIN LEAD.—Superintendent Duff is making rapid progress. The shaft has reached a depth of 75 feet. The whim works satisfactorily.

CITY OF BOSTON.—Superintendent O'Connell is pushing the work and a depth of 22 feet has been reached in the shaft.

ATLANTIC.—On Tuesday of last week the vein was reached. The shaft was sunk to a depth of 72 feet and then a tunnel was run to the northward striking the hanging wall of the vein at a distance of 16 feet from the shaft. The tunnel has been extended some four feet in the vein and good copper ore has been taken out. Work is progressing rapidly in both the shaft and the tunnel. Drifting will soon commence in the vein from the tunnel.

SILVER REEF.—The sinking of the shaft commenced about two weeks since and good progress is being made.

REVERE.—Operations will soon be commenced under the charge of Wilkie Darling, the new superintendent from Nevada.

LADY ELGIN.—Shaft No. 1 which is being sunk midway between the two veins, is down 27 feet, and the rock taken out is heavily charged with mineral containing more or less silver. Shaft No. 2 on the main vein has reached a depth of 10 feet.

DIRIGO.—The Dirigo Copper Mining Company was organized in Blue Hill on Tuesday evening. The capital is \$500,000 divided into 50,000 shares of a par value of \$10 each. There are 14,000 shares in the treasury. The officers are President, Hon. H. C. Martin of Brunswick; Treasurer, Chas. E. Hill of Bangor; Secretary, Harry B. Parker; Directors, Hon. H. C. Martin, Hon. F. M. Laughton of Bangor, N. P. Pendleton, Harry B. Parker and E. M. Le Prohon of Blue Hill. The property of the Dirigo Copper Mining Company is located at Blue Hill Neck and adjoins the Lady Elgin mine.

SWAN'S ISLAND.—The Swan's Island Mining Co., is a recent organization. The property upon which they are operating is situated on Swan's Island, about 25 miles south of Blue Hill. A shaft is in progress. The officers of the company are as follows: President, H. P. Johnson; Treasurer, H. S. King; Secretary, Geo. H. Jackson; Directors, Harlan P. Johnson, Henry S. King, Wm. M. Mills, Albert Mellen, Geo. H. Jackson. The capital is \$500,000 in \$5 shares, with a treasury reserve of 30,000 shares.

RIVERSIDE.—There has been no change at the works of the Riverside Mining Company during the past week. The shaft has been sunk 10 inches a day and squared up 5x10 feet in the clear. Some good ore has been taken out, assaying between \$16 and \$17 per ton in gold and silver. The shaft is now down 32 feet below the sill of the shaft house.

FARNUM.—The Farnum Silver Mining Company of St. Albans was recently organized at Belfast with a capital of \$500,000 divided into 500,000 shares, par value \$1 each, and the following list of officers: President, E. H. Nealey, Munroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealey, G. F. Harriman, E. C. Arey, F. F. Favour, John Atwood of Boston. No stock will be issued until 10,000 shares of the treasury stock have been sold. 200,000 shares have been set aside as a working capital.

ANDROSCOGGIN ACTON.—This company have recently organized at Auburn. The following are the officers: President, E. T. Gile, E. q., of Auburn; Treasurer, Hon. Geo. C. Wing of Auburn; Secretary, Milton F. Ricker of Canton; Directors, E. T. Gile, Geo. C. Wing, Charles F. Smith, Seth M. Carter, Thomas Littlefield.

THE ACTON MINES.

The Acton Lode was discovered in 1878 by Mr. Wiggin of

Farmington, N. H., who bonded at that time a large portion of the properties upon which the mines are now located. A tract embracing 500 feet on the veins was sold to Farmington gentlemen who organized a company under the name of the Dirigo Silver Mining Company, to operate upon what is now known as "Lot No. 14." The next season Prof. Bartlett made an examination of the locality, was highly pleased with the indications, and several well-known gentlemen of Portland, notably Mr. John S. Morris and Hon. Geo. P. Wescott purchased a number of lots along the line of the lode and commenced a thorough system of prospecting. As a result, the Acton Silver Mining Company was formed, and a shaft started on lot No. 7; others soon followed, and at the present time no less than thirteen organized companies are operating in the vicinity, with several others in process of organization.

Three veins have been discovered, the westerly of which has not been prospected, the easterly—said to be the larger of the three—but slightly, and the developments have been confined to the middle vein which follows the course of a ravine through which runs Burrows' Brook which crosses the vein in several places. The course of the vein is nearly north and south and is parallel with the county road which forms the western boundary of the properties. Commencing with the Dirigo and following down the line of the lode, we shall get a tolerably distinct idea of the work which has been accomplished.

Immediately adjoining the Dirigo on the north is lot No. 15, the property of a Lewiston and Auburn company known as the Androscoggin Acton; next several lots belonging to Portland parties, and further north the Eldorado, Casco and Deering Acton, all Portland companies. Nothing in the way of development however, has been accomplished on any part of these properties, further than extensive prospecting.

DIRIGO.

The shaft was sunk by contract to a depth of 60 feet, since which time progress has been slow. Preparations are being made, however, to push the work with renewed vigor. The shaft is vertical 45 feet, with an incline of 36 feet following the vein and is in good ore. A substantial shaft-house has been erected, steam hoisting works are in operation and also a Higley pump. Work is at present discontinued in the shaft and preparations are being made for timbering.

LOTS 13, 12 AND 11,

Are each 575 feet wide and are owned by Mr. Wiggin, the discoverer of the lode. Nothing but prospecting has yet been done on the properties.

FOREST CITY.

500 feet on the veins. Shaft down 45 feet vertically with an incline of 22 feet. At a depth of 20 feet the vein 4 1-2 feet in width was encountered and some of the best ore yet discovered in the vicinity taken out. Work is suspended and the shaft is full of water. The works consist of a shaft house 24x40 feet and a 16 horse power hoisting engine. It is proposed to drift from the bottom of the incline north and south upon the vein.

BOSTON ACTON.

500 feet. The vein is here observable in the bed of the brook, and the work which has been accomplished consists of a tunnel pushed into the hill to strike the easterly vein. It has reached a depth of nearly 100 feet, is well timbered the entire distance, and judging from the quartz which is coming in, the workmen are in close proximity to the vein.

PORTLAND ACTON.

500 feet. A vertical shaft has been started which encountered the vein at a depth of 30 feet, and is now some distance below it. Drifts will be started at 75 feet. Work is discontinued as in the case of the Forest City, pending the result of the consolidation business. If this is brought to a successful issue, these three companies with the Acton, which is the next South, will be placed under one management, and worked as one mine.

ACTON.

500 feet. Shaft No. 1 is 60 feet in depth with a cross-cut of 15 feet at the bottom, and is abandoned for the present. Shaft No. 2 is down 60 feet, and the vein 15 feet wide was encountered at 50 feet. A sump has been made to receive the surface water, and an incline started with the intention of following down on the vein. The ore shown at this point is a rich and massive galena with some arsenical iron, and extends across the whole width of the vein. A shaft house 28x40 has been erected, and the machinery consists of a 30 horse-power engine and boiler, made by Cook, Rymes & Co., Charlestown, Mass., and a Higley Cornish pump. A large and convenient boarding-house with accommodations for 70 men is nearly completed.

SILVER WAVE

300 feet. This is owned by Mr. Cowell of Leadville, Col., who has expended upwards of \$2000 in prospecting it by cross-cuts and a shaft 40 feet deep. It is one of the most promising properties on the entire lode, and the owner is now in the West closing up his business with the intention of returning in April, and commencing work in earnest.

BULLION.

600 feet. The property of the Bullion Mining and Milling Co. A fine shaft-house 24x40 has been built, and a 3 compartment shaft is down 35 feet and partially timbered. A 15 horse-power engine with a boiler of larger capacity, built by Rawson & Hettinger, Cambridgeport, Mass., are in position and a Knowles pump is on the ground. A large and substantial gallows-frame is in process of construction and also a water-tank of sufficient capacity to supply the works. The ground has been graded for the foundation of a Bradford concentrating mill, with a capacity of 50 tons daily, which has already been contracted for and is in process of construction. The whole is under the direction of Supt. Douglass, who is a practical miner of many years experience, and is thoroughly conversant with the workings of every department connected with a mine.

MORRIS.

600 feet. To be known as the Morris Silver Mine. The vein has been uncovered in several places by cross-cuts but nothing further has been accomplished.

LOT NO. 3.

600 feet. Owned by John S. Morris and Hon. Geo. P. Wescott.

LOT NO. 2.

500 feet. The property of B. Barnes, Jr., Portland.

LEBANON ACTON.

500 feet. A strong company has recently been organized in Portland to operate upon this property, and a shaft has been started and is now down about 20 feet. Several mineralized quartz "stringers" have been cut through. A shaft house will be immediately erected.

The next lot is 700 feet and is owned by Messrs. Morris & Wescott. Then comes another of 700 feet which will be known as the

YORK COUNTY.

This is owned by Stillman B. Allen, P. A. Collins and John C. Alden of Boston, and Saco and Biddeford parties. A company will at once be formed and operations commenced. The standing of the gentlemen engaged in it is such as to place the company above any suspicion of stock-jobbing operations, while their well-known reputations as active, energetic business men warrant the belief that vigorous measures will at once be taken to determine the value of their property.

Next comes the Butler farm and homestead, then the

MAINE ACTON.

This lot has a frontage on the road of 600 feet. At the other end the width is 225 feet. Workmen are engaged in cross-cutting for the vein. The company is composed of Saco and Biddeford gentlemen.

The adjoining property on the South is owned by John S. Jones,

and the next by Moore of Lewiston, but they have not been prospected, and indeed the lode has not been traced in this direction beyond the Butler farm. With the opening of Spring active prospecting will be commenced, and undoubtedly the veins will be found to extend much farther in either direction than is at present certain.

The extensive surface showings of this immense lode, the richness and extent of the ore body wherever the veins have been tapped at any depth, the flattering opinions of miners and professional geologists, and above all, Prof. Stewart's enthusiastic report, are most convincing arguments in its favor, and when the various companies now operating in this locality shall have their works perfected, and are fairly under way in true mining fashion, (which in many cases will not be long) we shall expect soon to hear of startling developments.

Nuggets.

The "Dominion Mining Exchange" has been opened in Calais, by Weston McAllister.

And now a silver and copper mine has been discovered in the heart of the town of Eastport.—[*Calais Times*.

Capt. Hooper while blasting at the Douglass mine in Blue Hill last week was thrown some distance by an explosion and quite badly injured. He is getting along nicely and will recover.

W. Small, Jr., of the Maine Mining Exchange, Old Fellows Block, has secured the services of Prof. Phillips, geologist and assayer, who will examine and assay ores for parties interested.—[*Lewiston Journal*.

Mr. E. C. Bassick, of Belfast, has just returned from eastern Maine after a prospecting tour of three weeks. He has bonded in the town of Jonesboro, 10,000 acres of land, and is negotiating for 40,000 more. He is satisfied with the ore product, and will secure even more land than the above. His acquisitions consist of islands and land bordering on the shore.—[*Belfast Age*.

A company is to be formed, we are told, to work the gold and silver mine on land of Deacon Samuel Kelley in Baileyville. The mine was discovered years ago, but it has never been opened. Some of the specimens of ore appear to be rich in the precious metals. A party of Calais gentlemen went up in the train Saturday to view the locality where the ore appears.—[*Calais Times*.

Capt. Geo. W. Collins has discovered a most promising silver vein at the head of Morgan's Bay in South Surry, near Blue Hill line. The course of the vein is northeast to southwest. The lot upon which it is situated contains twenty-eight acres, with farm buildings. The vein is five inches wide at the top—wall and vein two and one-half feet. One blast of powder produced specimens showing fine silver, which mining experts pronounce to be among the richest ever found in Hancock county. Work has commenced under the supervision of Capt. Collins and a company will soon be formed, to be called the Silver Bonanza Mining Company.

There is hardly a man of prominence in Maine but is more or less interested in some one of these mines. They are not of the class commonly known as shysters or speculators, though, doubtless, none of them would hesitate to make a "double" by legitimate speculation. It is easy to perceive that the great majority of Maine men who have invested small amounts in these mining properties, have done so with the belief that they are valuable, and can be profitably worked, and that they will become a permanent and substantial interest of the State. As there are black sheep in every flock, so there are gamblers, tricksters and frauds interested in Maine mines; but there is little excuse for anybody's being pulled in by any of them.—[*Machias Union*.

On the 13th instant Secretary F. G. Nourse issued the following notice to the stockholders of the Sullivan S. M. Co.: "The developments at the mine warrant the immediate con-

struction of a mill. To meet the proposed expenditures for this purpose, the undersigned will receive written proposals from the stockholders up to Wednesday, March 17, 1880, at 12 o'clock noon, for the sale to them of two thousand shares of treasury stock. Stockholders may bid for any number of shares, and the stocks will be allotted pro rata to the highest bidder." Wednesday, at the hour appointed, the proposals were opened and read, and the two thousand shares were disposed of at \$14. The bids ranged from \$12.50 for several small lots to \$14. This sale puts \$28,000 into the treasury of the company, which will be ample to build the mill and continue the work of development. Over 6000 shares still remain in the treasury.—[*Boston Advertiser*.]

Treatment of the Sullivan Ores.

The following communication appeared in the *Boston Traveller*:—

Editor of the Traveller,—In his criticism upon your article on the Sullivan mine, your correspondent, "D.," falls into error by confusing the terms smelting and milling. The Sullivan ore is a milling not a smelting ore, and the refining works of which he speaks, at St. Louis, Wyandotte, Omaha and Newark, are smelting works. It is true that Balbach of Newark will take milling ores, and, by mixing them with lead ores, will, by a secret process, extract the silver. He will not, however, take ores carrying less than 40 oz., or \$45.20 to the ton. James D. Hague gives the value from official sources of four million tons of ore from the Comstock Lode as averaging \$44.92 per ton, from which dividends were paid of \$74,000,000. It is evident, therefore, that a large proportion of the product of the Comstock Lode would have been worthless if there had been no other method of treating the ores than that suggested by your correspondent.

The process used and which is identical with that proposed for the Sullivan ore is a common one in the West, and comprises in its successive steps, stamping or crushing, roasting for base-milling ores, and amalgamation, the final product of which is bullion, as marketable anywhere as wheat. The whole process and apparatus is covered by the general term, mill, and if the writer is not misinformed, there is no mill of this character in operation east of Colorado. The Sullivan lode is probably no richer than the Comstock, and the Sullivan Company has therefore to erect a mill on its own ground, or to send its ores to Colorado, which would not pay. These mills are almost invariably owned by the several mining companies in the West, one noted exception being the case of the "bonanzas," in which the bonanza firm owns the mill and charges the mining companies so much per ton for milling. The superintendent of the Sullivan mines places the cost of milling their ores at \$10 per ton, basing his estimate on the actual cost of milling similar ores at a mill in Montana of which he had charge, making a proper allowance for the difference in the the cost of labor and supplies, which is of course greatly in favor of the Sullivan.

The citation by "D" of the Lake Superior copper companies as a parallel case is unfortunate. The copper-producing lodes of Lake Superior do not contain ore, but rock, carrying a percentage of copper in its native State, which is separated from the rock by milling or crushing and washing. Every mining company at Lake Superior, except those producing mass copper only, has its own mill, the product of which is called mineral, and carries 75 to 80 per cent. of copper. This is sent to the smelting works at Hancock, and there run into ingot copper, and as the smelting works smelt the mineral or concentrated copper from all the mines, it is probably done more cheaply than if each company should undertake to smelt its own mineral separately.

March 15, 1880.

N.

The prospect now is that Eastern Maine will experience an active and lively season the coming summer. The silver mines will attract an unusual number of visitors and capitalists. Visitors to the summer resorts will be more numerous than before. The granite business promises well. The fish catch is fair and prices well sustained. If the crop of blueberries prove a full one, there is no reason to feel despondent as to labor and business another season.—[*Machias Union*.]

New Companies.

Name of Companies.	Location.	Recorded.	Capital.
Eureka Silver Mining Co.,	Ellsworth,	March 15,	\$500,000
Middlesex Gold Mining Co.,	Portland,	March 15,	500,000
East Surry Mining Co.,	Ellsworth,	March 16,	500,000
Porterfield Ledge Mining Co.,	Camden,	March 17,	500,000
Revere Silver Mining Co.,	Bangor,	March 18,	500,000
Androscoggin Acton Silver Mining Co.,	Acton,	March 19,	500,000
Island City Silver Mining Co.,	Portland,	March 19,	500,000
Appleton Mining and Smelting Co.,	Appleton,	March 20,	500,000
Castine Mining Company,	Belfast,	March 24,	500,000

MAINE MINING EXCHANGE, 28 CONGRESS STREET, BOSTON.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 24, 1880.

NAME.	THUR.	FRI.	SAT.	MON.	TUES.	WED.
Agona.	18	18	16	22	22	21
Ashley.	1 75	1 75	1 75	1 75	1 75	1 75
Ammonoosuc.	1 00	1 00	1 00	1 00	1 00	1 00
Adams.	2 00	2 00	2 00	2 00	2 00	2 00
Blue Hill.	10%	10%	10%	10%	10%	10%
Contra.	1 00	1 00	1 00	1 00	1 00	1 00
Cherryfield.	1 75	1 75	1 75	1 75	1 75	1 75
Darling.	1 75	1 75	1 75	1 75	1 75	1 75
Deer Isle.	1 75	1 75	1 75	1 75	1 75	1 75
Ditigo.	1 75	1 75	1 75	1 75	1 75	1 75
Douglas.	6 00	6 00	6 00	6 00	6 00	6 00
Edgemoggin.	1 00	1 00	1 00	1 00	1 00	1 00
Ellsworth.	1 00	1 00	1 00	1 00	1 00	1 00
Favorito.	13	13	12%	13	13	13
Forest City.	75	74	75	75	75	75
Fort Knox.	3 25	3 25	3 25	3 25	3 25	3 25
Gouldsborough.	2 25	2 25	2 25	2 25	2 25	2 25
Grant.	75	75	75	75	75	75
Hampton.	26	26	26	26	26	26
Harrington.	2 00	2 00	2 00	2 00	2 00	2 00
Hill.	3 50	3 50	3 50	3 50	3 50	3 50
Home.	50	50	50	50	50	50
Milton.	25	25	25	25	25	25
Mineral Hill.	1 00	1 00	1 00	1 00	1 00	1 00
Owl's Head.	25	25	25	25	25	25
Pett Menan.	13%	13%	12	14	14	13
Portland Acton.	1 00	1 00	1 00	1 00	1 00	1 00
Robert Emmett.	2 50	2 50	2 50	2 50	2 50	2 50
Stover Hill.	1 00	1 00	1 00	1 00	1 00	1 00
Sullivan.	14 00	14 00	14 00	14 00	14 00	14 00
Twin Lead.	8 25	8 25	8 25	8 25	8 25	8 25
Waukeag.	1 50	1 50	1 50	1 50	1 50	1 50
Young Hecla.	1 50	1 50	1 50	1 50	1 50	1 50

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 24, 1880.

NAME.	THURS.	FRI.	SAT.	MON.	TUES.	WED.
Atlantic L. S.	25	25	24	24	24	22
Alton.	21	21	21	21	20	19
Blue Hill Copper.	10 10%	10 10%	10 10%	10 10%	10 10%	10 10%
Calumet & Hecla.	248	248	245	245	245	247
Copper Falls.	12%	14 12%	13	13	13 13%	12
Duncan Silver.	21%	22	21 21%	21	21	20
Franklin.	5	5 5%	5 5%	5 5%	5 5%	5 5%
Mesnard.	5	5 5%	5 5%	5 5%	5 5%	5 5%
National.	5	5 5%	5 5%	5 5%	5 5%	5 5%
Osceola.	61%	62%	61%	62	61%	61
Pewabic.	37%	37%	37	37	37	36
Quincy.	7%	8	7%	7%	7%	7%
Ridge.	16	16	15	15	15	14
Silver Islet.	2%	2%	2%	2%	2%	2%
Star.	13%	13%	13%	13%	13%	13%
Sullivan.	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
Waukeag.	1 50	1 50	1 50	1 50	1 50	1 50

ACTON SILVER MINING COMPANY, ACTON, Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.

IVORY LIBBEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY, Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec., 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St., Portland Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING COMPANY, Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO., Appleton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each; Treasury Fund, 35,000 Shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors—John Bird, George H. Cleveland, Moses Webster, S. E. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

BANGOR & BLUE HILL FALLS MINING CO., Blue Hill, Me. Incorporated 1875.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.

CHAS. W. BRYANT, Supt.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Doie, Manering Emery.
B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon. S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO., Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson of Bangor; Vice-President, John S. Jenness of Bangor; Treasurer, Edward B. Nealley of Bangor; Secretary, John R. Mason of Bangor; Directors—Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.

BOSTON ACTON SILVER MINING COMPANY, Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Dennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

BULLION MINING AND MILLING COMPANY, Acton, Me.
Capital, \$150,000, in 15,000 shares; par value \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.

CLARK SILVER MINING CO., FRANKLIN, Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth. Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; I.aac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY, Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

CONSOLIDATED HAMPTON SILVER MINING CO., Hampton, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares, \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Laughton, Bangor. Vice-President, Wm. H. Strickland, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, Wm. H. Strickland, Geo. A. Wadleigh, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

COMSTOCK SILVER MINING COMPANY, OF MAINE, Bucksport, Me. Incorporated, February, 1880.
Capital, \$500,000; Shares \$2 00 each.
Office, 40 Water St., Room 46, Boston, Mass.
President, Hon. William Wirt Warren, Boston; Treasurer, Oscar E. Doolittle, Boston; Secretary, R. B. Henchman, Bucksport; Directors—Hon. William Wirt Warren, Boston; Hon. Samuel R. Noyes, Boston; George F. Ropes, Salem; William Read, Boston; Samuel J. Noble, Boston; Dr. S. E. Thayer, Boston; George A. Murse, Boston.

CANDAGE COPPER MINING COMPANY, Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 Shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, S. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herlick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY, Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arty, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY, Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Wm. H. Darling, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Huckins, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING COMPANY, Acton, Me. Incorporated, Jan., 1879.
Capital, \$500,000; Shares, \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, N. Lebanon, Me.; Directors—I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rutus B. Foss.
W. A. GOULD, Supt.

DEERING-ACTON SILVER MINING COMPANY, Acton, Me.
Capital, \$500,000 in 100,000 shares; par value, \$5
Offices, 93 Exchange Street, Portland, Me., and Sears building, Boston.
President, J. M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors—Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.

EASTERN STAR SILVER MINING COMPANY, Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, A. F. Smith, Bangor; Directors—A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser.

EAST BLUE HILL GOLD & SILVER MINING CO., East Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D. Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EDGEMOGGIN SILVER MINING COMPANY, Sedgwick, Me. Incorporated, June, 1877; re-organized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors—Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sarzent, Wm. R. Page, J. W. VERERE, Supt.
Office of Company, 22 Exchange St., Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.

ELDORADO SILVER MINING COMPANY, Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fisk, Portland; Secretary, N. S. Gardiner, Portland; Directors—J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fisk, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EAST SURRY MINING COMPANY, Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors—Chas. H. Varnham and George W. Hutchings, East Surry; Naham Hinckley, Surry; Lewis Friend and Calvin G. Peck, Ellsworth; Supt., Isaac H. Grant, East Surry.

FOREST CITY SILVER MINING COMPANY, Acton, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Redlon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Barker, James E. Sturges, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

FORT KNOX SILVER MINING COMPANY, Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.
A. R. FELLOWS, Supt.

FRANKLIN SILVER MINING COMPANY, Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Laffan, Jeremiah Wooster.

FAVORITE COPPER MINING COMPANY, Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill; Secretary, Henry I. Billings, Blue Hill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, E. M. Hersey, I. S. Emery.

GOULDSBORO SILVER MINING COMPANY, Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

GARDNER MOUNTAIN COPPER MINING CO., Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Hale, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Hale, Henry T. Sanborn, John Atwood, G. B. Putnam.

GRANT SILVER MINING COMPANY, Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Unassessable;
Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer,
Geo. A. Gibson of Boston; Secretary, E. G. Johnston
of Sullivan; Directors—O. H. Perry, G. A. Gibson,
E. G. Johnston and Geo. W. Pettengill.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fuiton; Treasurer, S. J.
Morrison; Secretary, Geo. W. Fiske; Directors—
Dr. Alex. Fuiton, Dr. L. W. Hodgkins, D. M. Stuart,
J. T. Crippen, S. J. Morrison.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-
President, Ezra L. Sterns, Bangor; Treasurer, C.
P. Wiggin, Bangor; Secretary, E. M. Hersey, Bangor;
Directors—John S. Jenness, James Littlefield,
James Tobin, James A. Davis, Hon. H. C. Martin.
WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice
President, John S. Jenness, Bangor; Treasurer, W.
J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor;
Directors—Wm. H. Darling, John S. Jenness,
Hiram B. Williams, W. Oscar Arnold, Jacob Stern,
Manley G. Trask, Geo. W. Sweetser.

LEBANON ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb.,
1880.
Office—29 Exchange, corner Milk Street, Portland,
Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1
each; Stock unassessable. 100,000 shares in the
Treasury.
President, Hugh J. Chisholm; Treasurer, A. P.
Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund
50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer,
Porter Nealey, Bangor; Secretary, E. C. Pearson,
Bangor; Directors—Wm. T. Pearson, Porter Nealey,
Edgar C. Pearson, Emery G. Ingalls, of Bangor;
Alvin Roddick, of Boston; Arthur S. Newman,
of Portland; Roderick H. Candag, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer,
Dr. L. W. Hodgkins, Ellsworth; Directors—
H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr.
K. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer,
Thomas Dalby, Boston. Secretary, Sidney
E. Horne, Sullivan. Directors—L. F. Morse,
Sidney E. Horne, James R. Grose, Thomas Dalby,
Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office,
4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary,
W. O. Arnold of Bangor, Me.; Treasurer,
G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value
\$5 each. Unassessable. J. SHOENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer,
L. S. Johnson, Bangor; Secretary, A. W. Cushman,
Ellsworth; Directors—Henry Whiting,
L. S. Johnson, S. N. McFarland, F. A. McLaughlin,
A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAllister, Bucksport; Treasurer,
A. C. Swazey, Bucksport; Secretary, F. H. Moses,
Bucksport; Directors—G. W. McAllister,
J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses,
E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable;
Treasury Fund, 25,000 shares.
Geo. F. Calef, President, of Saco; Ferguson
Haines, Treasurer, of Biddeford; Frank Foss, Secretary,
of Saco; Directors—Geo. F. Calef, Alfred
Patterson, Dr. J. E. L. Kimball, of Saco, Charles M.
Moses, Edwin Storr, Frank A. Sawyer of Biddeford.
JERE G. SHAW, Supt.

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Organized under the laws of the State of
Maine. Capital Stock \$500,000; Number of Shares
100,000; Par Value \$5; Full paid and forever un-
assessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer,
A. E. Fernald, Winterport; Secretary, Walter Hale-
ley, Winterport; Directors—D. H. Smith, Winter-
port; E. C. Arey, Winterport; John Pierce, Frank-
fort; W. G. Frye, Belfast; John Atwood, Boston;
Walter Hale, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
_____, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treas-
ury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President,
J. W. Milliken, Bangor; Treasurer, W. P. Hub-
bard, Bangor; Secretary, E. H. Dakin, Bangor;
Directors—J. S. Ricker, J. W. Milliken, W. H. Dar-
ling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treas-
ury Fund _____ Shares.
President, Weston F. Milliken; Treasurer, James
L. Rackliff, Secretary, Chas. D. Clark; Directors,
W. F. Milliken, Chas. McCarthy Jr., John A. Strout,
F. J. Rollins and W. H. Moulton.
Office of Company, 24 Exchange St., Portland, Me.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated,
Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury
Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treas-
urer, L. B. Wyman, Ellsworth; Secretary, J. B.
Redman, Ellsworth; Directors—E. H. Greeley, J.
W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated,
January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and
G, 3d floor.
President, L. Foster Morse, Boston; Secretary,
Samuel Annear, Blue Hill; Treasurer, Jno. H.
Faxon, Jr., Boston; Directors—L. Foster Morse,
Boston; Samuel Annear, Blue Hill, Me.; Geo. G.
Barker, Salem, Mass.; Thomas H. Guernsey, Bos-
ton; Joshua S. Dunklee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-
President, J. S. Ricker, Bangor. Treasurer, Chas.
Hight, Bangor. Secretary, W. J. Patten, Bangor.
Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-
sander Palmer, J. W. Thompson, George F. Dill-
ingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury
Fund, _____ Shares.
President, H. Whiting, Ellsworth. Treasurer,
A. A. Bartlett, Ellsworth. Secretary, George A.
Parcher, Ellsworth. Directors—Henry Whiting,
Marcus Mullian, James F. Davis, Guy Mullian, A.
A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880
Capital, \$500,000; Shares \$5 each; Treasury Fund
\$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm.
E. Brown, Bangor; Secretary, Wm. L. Johnson,
Bangor; Directors—F. O. Beal, W. J. Webb, Geo.
W. Knight, Ezra L. Sterns, Hon. F. M. Laughton,
A. H. Thaxter, B. B. Thatch, Bangor; A. H.
Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 28,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and
Secretary, Wm. P. Hubbard, Bangor. Directors—
J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M.
Laughon, Bangor; Melvin Preble, Bangor; Geo.
Brooks, Orrington; W. H. Darling, Blue Hill;
Thomas White, Bangor.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated,
April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassess-
able; Treasury Fund, _____ Shares.
President, Geo. B. Brown, Boston; Secretary, W.
O. Arnold, Bangor; Treasurer, F. R. Nourse, Bos-
ton; Directors, Geo. B. Brown, Joseph G. Russel,
Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Rich-
ards.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer,
J. S. Ricker, Bangor; Secretary, C. F. Bragg, Ban-
gor; Directors—W. P. Hubbard, J. S. Ricker, C. F.
Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H.
M. Bartlett.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated,
March, 1880.
Capital, \$500,000; Shares \$5 each
President, Judge A. P. Wiswell, Ellsworth;
Treasurer, C. C. Burrill, Ellsworth; Secretary, J.
B. Redman, Ellsworth; Directors, Hon. Eugene
Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund
40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary
and Treasurer, G. S. Bean, Bangor; Directors—
James Adams, E. J. Swan, M. G. Trask, C. C. Bur-
rill, E. C. Nichols.
E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund
40,000 shares.
President, Capt. J. H. Hill; Vice-President,
James Emery; Treasurer, A. H. Genn; Secretary,
C. J. Cobb, all of Bucksport; Directors—J. H.
Hill, James Emery, Richard Snow, Howard Swa-
zey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, _____ Shares.
President—David Bugbee, Bangor. Vice-Pres-
ident, Frank P. Wood, Bangor. Treasurer, John
S. Jenness, Bangor. Secretary, John K. Mason,
Bangor. Directors—David Bugbee, Frank P.
Wood, Charles Duff, J. S. Ricker, Samuel Sterns,
James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office
No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secre-
tary, W. O. Arnold, of Bangor, Me.; Treasurer,
Geo. E. Harrington, of Salem, Mass.; Directors, B.
S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E.
Harrington, W. E. Connor, L. Foster Morse, C. I.
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WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secre-
tary and Treasurer, Harry C. Bliss, Bangor; Di-
rectors—Chas. I. Collamore, Alonzo Packard, Col-
lin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WHITE STAR SILVER & COPPER MINING CO.
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Hon. H. C. Martin, Brunswick; Vice-
President, J. W. Milliken, Bangor; Treasurer, W.
P. Hubbard, Bangor; Secretary, F. H. Clergue,
Bangor; Directors—H. C. Martin, J. W. Milliken,
James Adams, W. H. Darling, Parris G. Merrill, F.
H. Clergue.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-Pres-
ident, Charles Hamlin, Bangor; Treasurer, John
R. Mason, Bangor; Secretary, W. F. Seavey, Ban-
gor; Directors—John S. Jenness, Charles Hamlin,
Samuel R. Prentiss, Wm. D. Swazey, William H.
Darling, James W. Davis.

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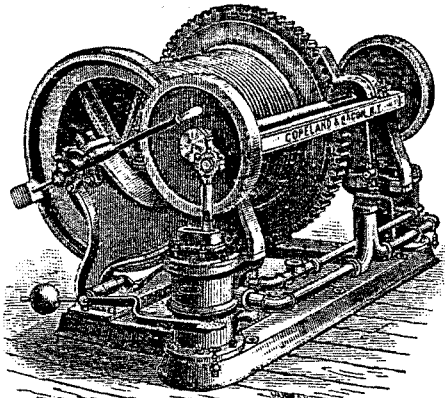
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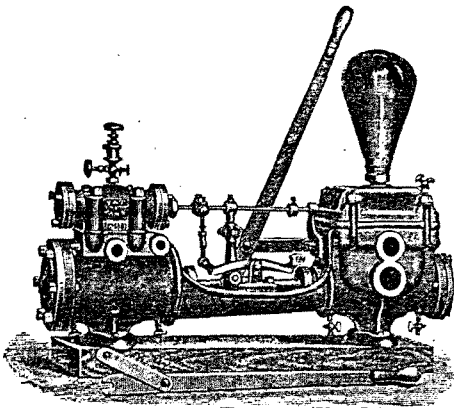
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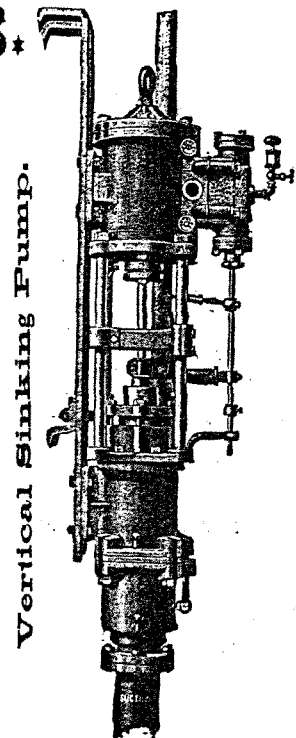
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DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

[Entered as second-class mail matter.]

Vol. I. No. 14.

BANGOR, MAINE, APRIL 2, 1880.

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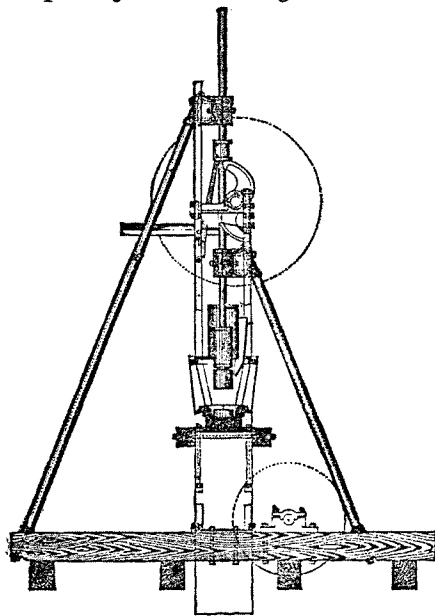
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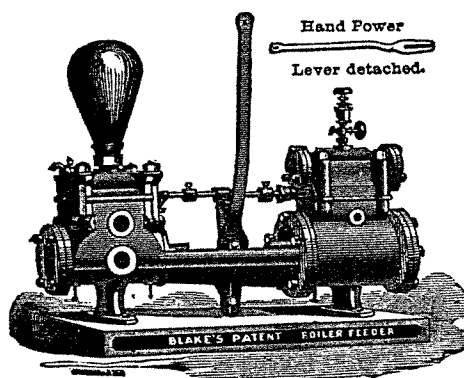
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GOULD Silver Mining Company.

The Mining Property known as the Gould
Silver Mine is situated in St. Albans, Somerset
County, Maine. It is known as the Tripp Farm,
bonded of Maria J. Emerson by J. C. Tripp of
Monson and J. W. Gould of Blue Hill.

A shaft has been worked to the depth of seven
feet, the ore taken out being very rich and prom-
ising, assaying \$35.00 to the ton. At a meeting of
the Bondholders at the Maine Mining Exchange
in Bangor, the Company voted to form a joint
stock company under the laws of the State of
Maine, said Company to have a capital of \$500,000,
to be divided into 100,000 shares of a par value of
\$5.00 each, which are to be forever unassessable.
Said Company agrees to put into the Treasury 80
formed 23,333 shares of the capital stock, and three
thousand dollars (\$3,000) in cash; and of the re-
mainder 43,000 shares are for sale at 40 cts. per
share.

ISAIAH S. EMERY,

WM. H. DARLING,

Trustees.

February 26, 1880.

Blue Hill Mining Exchange,

AND OFFICE OF

COL. W. H. DARLING,

Blue Hill, - Maine.

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IN REGARD TO

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Blue Hill, Maine.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING,
W. F. BLANDING,) EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, APRIL 2, 1880.

A LESSON.

We are sorry to be compelled to say it but we do think that the so-called "business standing" and the "honorable reputations" of many of the officers of these mining companies have altogether too much weight in influencing the investor in stocks. Those seeking profitable investments by purchasing at low figures and holding for a legitimate rise, must learn to *know* something about the properties before investing, or they will find when too late that they have been the victims of misplaced confidence.

In the first place men who are shrewd and careful in all other kinds of business are easily drawn into these schemes by designing sharpers, who wish to use their names and influence to give "tone" to an enterprise. As a consequence many presidents and other officers of mining companies have never seen the alleged mines with which they are connected. Again, as we have before intimated, men who in other branches of business would stand firm against any measure which could bear the slightest taint of dishonesty, do not hesitate to engage in what are at least very questionable transactions in connection with mining.

An apt illustration is the recent Little Pittsburg fizzle in New York. The president of the company, ex-Senator Chaffee of Nevada, in a prospectus issued some time since, represented \$5,000,000 in sight. \$2,000,000 have been taken out and the mine is exhausted. The worst feature however, is the fact that the officers of the company have known for quite a while that the bonanza was "played out," and proceeded to unload nearly all their individual stock at high figures, leaving the remainder of the stockholders to suffer the consequences. Among the names of the directors are the following: Ex-Senator Chaffee and Gov. Tabor of Nevada, Henry Havemeyer of New York, Senator Barnum of Connecticut and Hon. Alex. H. Rice of Massachusetts.

This carries its own lesson. Let us hope that such transactions may not be repeated on a smaller scale in Maine.

SUCCESS OF MINING.

Notwithstanding the difficulties under which mining has had to labor as one of the pioneer industries, and the obstacles of ignorance, inexperience and poverty with which it has always had to contend, we doubt whether there is any other business that has made a better showing for reasonable investments, considering all things, and we believe there is no line of business now inviting capital that rests upon a firmer and more reliable basis.

Some may argue that because the wealth of a mine is hidden and unexplored its results are uncertain and its success is a mere matter of chance. We have always contended that the results of a mine were more certain than those of any other business under the same circumstances. The farmer's harvest is not in sight, and is one of the most uncertain probabilities that can be figured on from the seed time to the market. Nevertheless the products of the agriculturist can be estimated with a reasonable degree of certainty. The profits of a merchant purchasing a stock of goods are by no means assured when the stock is offered for sale. They are dependent upon a thousand unforeseen contingencies, against many of which no human experience or energy can successfully battle. A farm may be located near another farm that has been successful for years, but that assures no certainty. A store may adjoin another that has made its proprietor rich, but that fact will not assure a competence to the second, but may be the means of ruining the business of both; while a mine located on a well known and thoroughly tested mineral belt in the neighborhood of other well established and paying mines has almost to a positive certainty success and prosperity open before it.

Mining has been held responsible for all the ignorance, foolishness and wickedness of all who in any manner have had anything to do with it. If a man, wise in his own conceit, dealing with unknown and irresponsible parties, invests a thousand dollars in paste when he expected real diamonds, should diamonds be condemned, or the man's own cupidity and credulity? If parties choose to throw money into holes called mines without investigation, without experience or knowledge, let them suffer the results of their own foolishness, while the industry of mining stands with clean hands in the midst of her traducers. There are real diamonds, and he who is imposed upon by the false must blame himself. There are good mines and plenty of them; the facts can be obtained as to their condition and prospects. Trustworthy information in regard to safe investments in mines and mineral lands can be secured by any one who desires it; therefore he who, trusting to his own judgment, prefers to learn in the school of experience, certainly should not cast the stigma of his failures upon the fair name of one of the grandest industries of our country, grand in its value and extent, grand in the promise of its future and the influence it will have upon the prosperity of our people.

The fact that at no time has capital been so favorably disposed toward mining is one of the surest signs of its future success. There are mines in all stages of development, and many mining districts that are waiting only for the life-blood of capital to stir them into activity, and when this current of capital touches them that is now flowing out to

them the results will make success a certainty. Public confidence is a plant of slow growth, slow as the century plant which gives

A patient century of green
To one full, perfect flower.

But there can be no doubt of the place that mining has now secured in the confidence of the general public and the favorable consideration with which it is now regarded. This alone is sufficient to make its success certain, for all that mining demands or any of its friends ask is to have its merits recognized.

As it becomes better known, as its great advantages are recognized, as its vast resources are comprehended and reasoning men control its management, mining will prove its promises true, and grow in favor as a safe, sure and legitimate business, with unparalleled advantages and a certainty of result beyond most if not all others. In view of these facts and the present outlook he is a dull prophet indeed whose heart does not thrill with the picture that the future presents of the ultimate success of the imposing industry of mining.—[*Mining Review*.]

Personals.

MR. GEORGE D. HOLT, a mining man from Gold Hill, Nevada, arrived in Bangor on Tuesday last.

MR. THOMAS CAHILL has arrived in Bangor from Nevada and has taken charge of the works at the Harrington mine.

MESSRS MASON, WEBB & COMPANY have opened a broker's office at 7 Exchange Place in Boston and are dealing in Maine mining stocks.

MR. R. W. BULKELEY of the Keweenaw Point Mine at Lake Superior and Mr. C. H. PALMER, also largely interested in that region, have been on a visit during the past week to the mines of the Blue Hill, Sullivan and Gouldsboro districts.

CAPT. GEO. W. COLLINS has been in the city this week. He reports the vein in the Silver Bonanza Mine as being two and one half feet wide instead of five inches as reported last week. He has discovered another vein upon the same property running parallel with the above about twenty rods distant. The specimens from these veins are exceedingly rich in fine silver. These veins are situated one and a half miles north of the granite formation and the ore is in trap rock. CAPT. COLLINS is on his way to Boston and New York, looking after some granite contracts in which he is largely interested.

SUPPLEMENTARY REPORT

On the Property of the Consolidated Hampden Silver Mining Company, by Prof. W. F. Stewart.

BANGOR, March 27, 1880.

To the President and Directors of the Consolidated Hampden Silver Mining Company:—

Since my visit to the Dunton, (now the Consolidated Hampden mine), last autumn, the property has been completely metamorphosed by the erection of a capacious building, and by the introduction of effective steam machinery. At that time exploitation upon the mine was extremely superficial. There were no permanent surface improve-

ments, and the working shaft was simply an untimbered prospecting pit. Now, the work of excavation is performed through a well timbered vertical shaft, and by the most expeditious mining appliances. All these local improvements have been perfected in the midst of a New England winter, and therefore afford palpable proof of the faith, energy and pluck of the Hampden company.

At the time of my visit in November of last year, the excavation had reached the depth of about eighty feet. Since then a lateral cross-cut was driven through the vein from wall to wall, and at this juncture the shaft has attained the depth of 110 feet below the surface. As will be seen by referring to my report upon the Dunton, the surface outcrop of the lode indicated a vein of sixteen feet in width. At the eighty-foot cross-cut, it had expanded to nineteen feet; and it is therefore safe to infer that the lode, when again cross-drifted, will be found still further expanded in lateral diameter.

Immediately below the eighty-foot cross-drift a lens-shaped mass of extremely hard quartzose rock was encountered. This curious intruder seems to occupy a central position in the vein stuff of the lode, and extends vertically to the present work of excavation. This lens or "horse" of tough silicious rock is indeed a lithological curiosity and I am at a loss how to classify it. It is as hard as hornstone; brittle as flint; beautifully marked by alternating narrow bands of buff and gray colors, symmetrically arranged and is permeated by reticulated seams of white quartz containing disseminated minute crystals of iron pyrites and sulphuret of antimony. It is worthy of note that the threads of quartz permeating this singular mass, usually contain small crystals of shining galenite, and there are reasons for believing that the entire lens will speedily give place to lead and silver bearing quartz. In fact, the present working at the bottom of the shaft plainly indicates that the "hard horse" is gradually shrinking in width and will shortly feather out and disappear entirely.

As the dip of the lode has become nearly perpendicular—being at this date about 85° from the horizon—the vertical shaft is simply driving through the vein and the work of excavation is confined to the north, or hanging-wall side of the lode. This wall is well defined, having the usual accompaniment of a true fissure vein—a selvage of clay and hydrous oxides. The diameter of the space between the wall and the lenticular mass above referred to, is about eight feet, and is entirely filled with greenish and yellowish tinted chloritic and epidotic granular quartzite. This quartzitic gangue is traversed by innumerable seams, bands and reticulated veins of quartz all heavily charged with argentiferous galena, sulphuret of antimony, tetrahedrite, copper pyrites and iron pyrites. The mineralization of the lode by the substances just enumerated, is palpably increasing at every fathom of excavation. The green stone is rapidly giving place to the metal-bearing quartz and it is evident that at a depth of a few hundreds of feet from the surface, the great vein will be permeated from wall to wall with silver-yielding materials. The present indications at this mine are certainly encouraging. They simply confirm the predictions which I hazarded in my report upon the property last autumn, and I am now more than ever convinced that with proper exploitation and skillful management the Consolidated Hampden will soon become a valuable bullion producer.

Yours respectfully,

W. F. STEWART.

Mr. John W. Mackay has bought out the entire mining interests of his late partner, J. C. Flood. Mr. Flood will henceforth devote his energies to the management of the Nevada Bank and the improvement of his estate at San Mateo, Cal.

Dips, Spurs and Angles.

THE GIRL OF METTLE.

I met lovely girl one day,
 Who glanced her iron me
 In such a sweet mischievous way
 That I felt ore fully.

Ah! how could I dis pewter right
 To steel my heart away?
 Her silver tongue gave such delight,
 That I was lead astray.

I summoned all my brass to plead
 My love for her was gold,
 "If you have any tin—agreed!"
 She answered, O so cold.

I thought I'd zinc when she began;
 For I had not a "copper;"
 But ere her web bronze round a man,
 I hope old Nickel stop her.

—[*Silver World*.]

Old sledge is the blacksmith's favorite game.

"Am I on the ground floor in this thing?" asked an investor the other day. "That's just where you are," was the answer, "and there's a basement and a cellar under you."

There is an unprecedented boom among steel manufacturers. They are all working overtime, and it is feared the supply of metal will run short. A St. Louis girl has ordered a pair of skates.

A California miner sang "Rock Me to Sleep" every day for fourteen days while he was working, and then his infuriated companions turned to and rocked him into the sleep that knows no waking.

The prospect of the Maine mines would be amazingly improved if there wasn't so much "ground floor" about them. "Getting in" on the so-called ground floor isn't mining, though a great many people seem to think it is.—[*Boston Herald*.]

A young Maine farmer married a highly cultivated Boston girl who didn't know the first thing about housekeeping, but had devoted her youth to the study of geology and mineralogy, and when he took her home, instead of attending to household duties, she went roaming about the farm, and soon discovered on her husband's land a gold mine worth \$40,000.

The day after a young man from the Maine lumber regions struck Leadville, some of the citizens gave him a chance in a free fight, just to let the tender foot see something of life, and after he had broken a jaw for an alderman, put a prominent citizen in the stove and fired a bartender through the roof, they called an armistice and offered the greenhorn \$20,000 to emigrate to a rival camp.

There is a spice of adventure in prospecting Colorado which is lacking in the mining camps of Nevada. In Colorado the sturdy prospector going about his peaceful pursuits, and on the lookout for no more exciting sport than a claim jumping dispute with shotguns, is oftentimes met by a sad, silent Indian who lifts the sturdy prospector's hair in

a manner which lends an unusual charm to his occupation totally lacking in the tame precincts of Nevada.—[*San Francisco Stock Report*.]

The term "watered stock" originated, it is said, with Daniel Drew, who was a drover in his early days. T. Carpenter, a leading broker in Wall street, was a son of a farmer in Putnam county, where Daniel Drew came from, and he went to Drew one day to sell him some stock which had been put on the market at considerably above the actual cost of the property. Drew said, "That stock makes me think of old farmer Brooks up at 'Put' who used to salt and water his stock to make his cattle weigh heavy when he sold them!" The broker told this story in the street, and it became an adage.

The State of Maine will be the field of labor the coming season for thousands of practical miners, drawn here by the splendid outlook of mineral wealth that is now locked up by the cold of winter. As soon as spring opens these men will investigate every vein of quartz that crops out to the surface. Let every farmer that has such a quartz lead on his land be ready and willing to afford the miners an opportunity to investigate and bring to light the mineral wealth that may be hid beneath the soil. If Maine is a silver mining State, the sooner we know it the better it will be for every citizen, particularly the farmers who are the producers. Large sums of money have got to be expended by mining companies before anything can be realized from the operations, and the greater part of this capital will come from other States, so that, while the capitalist opens the mine on the prospective chances, we reap the benefit of the outlay of labor, living, and largely of material. They are taking all the chances of discoveries, which in many cases will prove to be a failure. Therefore we say again, let us be exceedingly liberal in our demands, remembering that fortunes may remain hidden beneath the land we own and till, as long as we live, which might otherwise prove a fortune to others and at least a competency to ourselves.—[*Newport Times*.]

Kennebec Mining Exchange.

A stock and mining exchange was organized Saturday afternoon, 27th inst., at the office of Gen. Henry Boynton, under the general laws of Maine, for the purpose of developing the mines in Maine and encouraging all branches of industry in this State, and more particularly in this vicinity. Its purpose is buying, selling and dealing particularly in stocks of the various reliable mines of Maine, and organizing industrial enterprises warranting merit.

The organization made choice of a board of directors of Augusta's best business men and the directors at once elected Gen. Henry Boynton, President; Capt. Jos. Miller, Secretary and Treasurer; ex-Mayor Charles E. Nash, Chairman of the board of directors. Our city has now a reliable mining and stock exchange ready for business. Their office is in Darby Block, Water Street.—[*Kennebec Journal*.]

FOREIGN MINING NOTES.

No. 6.

BY F. L. BARTLETT, STATE ASSAYER.

In my letters thus far I have endeavored to give some idea of the ore trade as conducted in England and some hints in marketing ores. And now, since it is fair to presume that our

mining people are anxious to learn the value of their mines as compared with those of other countries. I will give short descriptions of some of the principal British mines, especially those which resemble our own, and make comparisons of their modes of mining and dressing ores with ours, as well as compare expenses, size of lodes, richness of the ores, etc. In visiting the mines I have invariably made it a rule to obtain the *actual cost* of mining and to get precise data concerning the width of the lodes, productiveness and geological conditions, and since silver-lead ores are most sought after at present in our State I will commence with the mines of that description.

The total production of lead and silver ores in Great Britain is annually about 80,000 tons. The most productive mines are in rocks and strata belonging to the so called Cambro-Silurian, closely allied to our Huronian system; in fact, the great slate belt of Penobscot and Piscataquis counties would exactly correspond with the English Cambro-Silurian. A few of the mines, notably the most unproductive are found in carboniferous limestone, like those of North Wales and the Pennine group.

THE SHROPSHIRE AND MONTGOMERYSHIRE MINING DISTRICTS

yield large quantities of galena, but very poor in silver, rarely giving more than 5 to 8 ounces to the ton. The most productive veins have a compass direction north-west and south-east, running with the strata. The rocks are slaty sandstones and shales traversed by greenstone dykes and porphyritic rocks. The veins are from two feet to twelve in thickness and are filled with a gangue of quartz and calc spar with some fluor spar. The galena is coarse and much mixed with zinc blende and iron pyrites. The rich parts of the lode yield 3 tons of dressed lead ore per fathom but the average yield of the greater part is only 1500 lbs per fathom. Just here I must explain that the yield of all mines in England is based on the amount per fathom, of the lode, 6 feet long, 6 feet high and the width between walls; for instance, a lode is 3 feet wide, a fathom would in this case mean 3 by 6 by 6 feet or 108 cubic feet, and the amount of dressed ore obtained from removing that quantity would indicate the fathom amount.

There are no mines in Maine that exactly resemble those of the Shropshire district. The greenstone and some of the slate resembles that of Hampden but the ores are entirely different, resembling the ores of lead from Corinna somewhat, but less rich in silver. Very few of these mines prove profitable. The "Van" mine has been the most productive and its history is most interesting. This mine was first started in 1850 and has been abandoned three times. It was worked altogether 6 years before a pound of ore was sold and it was not until April 1863 that the mine was made to pay; since then it has been very profitable. It has been observed in these districts that the compact blue slate carries ore containing the most silver, that the extremely hard slates are not productive, neither is the soft shale. The ore is distributed through the veins in small bunches more commonly concentrated in the hanging walls but occasionally found concentrated on the foot wall.

The average cost per fathom for stoping at the "Van" mine is 60 shillings (\$15) per fathom, for running drifts about 140 shillings (\$35) for sinking about the same as drifting. I am told that no other mine in the kingdom is worked at such low prices. The ore from these mines is dressed up to about 74 per cent of lead. Of 48 mines in the two districts described only 20 produce ore, amounting annually to about 16,000 tons.

THE CARDIGANSHIRE DISTRICT

is similar in geological features to the districts described but are more slaty and less traversed by dykes and fissures. It is an old mining district, probably worked by the ancient Britons and Romans. As long ago as 1690 some of these mines were worked by stock companies. One twelfth of the net proceeds had to be given for establishing schools in Wales. At that time about thirty mines were in operation and a mint was established for coining silver during the reign of Charles the First. At the present time about seventy mines are in operation and the annual yield is about 6,000 tons. The average in silver is from 8 to 10 ounces per ton; those most productive in silver are Great Darrew 26 oz., Level Wewydd 22 oz., Court Grange, 34 oz. There are many interesting features about these mines and some of them closely resemble mines in Maine. The general inclination or dip of the lodes is very great, 50 to 70 degrees from the horizon. The vein stuff is mostly quartz, sometimes containing lime. The ore occurs in strings and often has feeders, and is always associated with zinc blende and iron pyrites; oftentimes copper pyrites occur. The lead is most abundant when the quartz is cellular and drusy or easily friable, and is usually poor when the quartz is massive and solid. The ore is most abundant when the lodes traverse the compact bluish or greenish slaty rock that is somewhat talcose.

The slate rock of this district greatly resembles the Dexter and Corinna slates or the somewhat talcose rocks of the western

portion of the Piscataquis belt. When the slate becomes gritty like the Bucksport and Orland slates it becomes less productive in ore. Some of the ore of this district greatly resembles the Cherryfield surface ore, being composed of galena and zinc blende. When it occurs with copper pyrites it contains more silver, but when it occurs alone as simple galena the silver is exceedingly small.

THE CARNARVONSHIRE DISTRICT

contains 30 or more mines. The yield in silver is small and there is only one interesting feature about these mines. The most productive rock is a hard, greenish grey rock with white spots in it that somewhat resembles the country rock at Gouldsboro, or more nearly a certain band of rock near South West Harbor, Mount Desert.

THE ISLE OF MAN

produces the richest silver ore of any of the mines in the kingdom of Great Britain, the average yield of the dressed ore being over 40 ounces per ton. The total of eleven mines is about 4,500 tons of lead silver ore and 9,000 of zinc yearly; of this amount the Great Laxey produces 2,500 tons. In geological features the mines of the Isle of Man greatly resemble those of the Gouldsboro district. The lodes are from one to seven feet wide, well charged in gangue of quartz, sometimes containing calc spar. The ore occurs in bunches and strings coarsely crystallized and consequently easily concentrated. The yield per fathom sometimes reaches 4 tons of dressed ore.

THE PENNINE GROUP

form a chain of mines about 225 in number. Only a few of them are productive and the yield in silver is small; about 6 1-2 ounces per ton. The Pennine chain is a carboniferous limestone zone extending from Scotland to Derbyshire. The limestone stratum is thin and mixed with shales. The lodes pass through the limestone shales into sandstone and quartzite below; as they pass through, the zinc is always left behind. Iron pyrites are abundant in the lodes as well as zinc blende. The gangue of the lodes consists of quartz, carbonate of lime and baryta, with some fluoride of calcium. The limestone stratum is about 150 feet thick and six miles wide. The average width of the lodes is about three feet. Some of these mines are very old, dating back to 1289. We have no mines in Maine that correspond in geological or stratigraphical features to the Pennine mines.

GEOLOGICAL REPORT,

Upon the Property of the Saunders Mining Company of North Blue Hill, by W. F. Stewart, Geologist

As the amount of excavation which has been performed upon this property is quite superficial—the surface opening being merely a shallow pit, only a few feet in depth—I shall have to depend mainly upon its geological structure and topographical surroundings in order to reach even an approximate conclusion as to its prospective value as a mining property. The property under consideration, is situated about three and a half miles in a northwesterly direction, from the village and harbor of Blue Hill, Maine. The mine is in convenient proximity to the stage road leading from Blue Hill to Bucksport, and rests upon an elevated ridge which extends from the base of Blue Hill Mountain toward the northwest. This elevated land is really a broad, undulating plateau, which forms the back-bone, or water-shed of Hancock county. The rock exposures in this region indicate that the ridge referred to is simply a granitic mass underlying wide areas of gneissoidal and schistose rocks. At certain points, the micaceous schists gradually shade into and assume a gneissoidal structure, but the prevailing rocks of the district are argillaceous and micaceous schists.

Before entering upon the descriptive details of the mine and of its immediate lithological surroundings, it may be well to briefly refer to the ascertained facts in relation to the general structure of mineral veins in this country.

The most reliable deposits of the precious metals usually occur in veins of quartz, barite, or other crystalline materials which penetrate and fill deep fractures and profound chasms in metamorphic rock-strata. There are other forms of deposit, such as beds, chambers, and superficial lodes, or what miners designate "gash veins," in which the enclosed ores of silver and gold are sometimes found to be extremely valuable; but such deposits usually exist in granite, compact dolomite, or other unstratified rocks, and are therefore shallow and unreliable. It may be safely asserted that the most valuable and most trustworthy silver-bearing deposits are in mineralized veins which traverse the metamorphic or crystalline strata. Usually, such mineralized veins occur in groups, or families of three or more, all occupying parallel positions to each other in a more or less expansive zone. Nearly always in such groups

there is one prime member of the system known to miners as the "mother lode," which is generally believed to be more expansive, better defined and more fertile than any of its neighbors. It may be that this belief in the superior qualities of the so-called "mother lodes," is more fanciful than otherwise, but the actual developments which have been made in numberless mining localities in various portions of the world, seem to lend some degree of plausibility to the popular notion.

Now, if it be admitted that true mineral bearing ore-zones nearly always contain groups, or families of mineralized veins, and that a variation of this rule is palpably exceptional, then a doubt will naturally and reasonably arise in relation to the prospective value of a mineral vein which is completely isolated and far removed from other ore-bearing rocks. This doubt is strengthened by the modern philosophy of vein-mineralization. It is held by the leading physicists of our time, that all ore-bearing veins have been formed and fertilized by electro-chemical agencies; that the deep rock fractures have been filled with their silicious and metallic elements from hot chemical solutions; that the fertilizing metallic atoms were drawn from the adjacent rocks by magnetic attraction and precipitated into the deep ore channels and thus concentrated in appreciable masses as we now find them. The *modus operandi* of the accepted theory of vein-mineralization may be briefly stated as follows: The ejection of volcanic matter through zones of strata containing metals in the atomic condition, occasioned an intense degree of local heat in the deep, submerged rock-fissures. In accordance with the known law of correlative action, the heat produced powerful currents of electricity. The electricity engendered active magnetic force—the prime motor in the final process of vein mineralization. In advocating the electro-chemical theory of vein fertilization, Hopkins remarks that: "A magnetic or galvanic current passing through solutions, if not the actual *modus operandi* of nature, is at all events capable of giving a rational solution, not merely of the mineral veins, but also of all the operations of nature disclosed by geology." Touching the soluble condition of terrestrial substances as well as the thermal effects of electro-chemical activities, the same author states as follows:—"That nearly all the substances which constitute the crust of the globe are found *in solution* as well as solid, saturated throughout the rocks, and to such a degree sometimes as to issue out and form springs, is well known; therefore judging from the violent effects on a small scale which we are able to produce by experiments, a heat would be engendered quite adequate to occasion all that takes place in volcanic eruptions." That mineral veins received their fertilizing atoms from the adjacent rocks by chemical action is affirmed by many of the most trustworthy mineralogists in both hemispheres. Von Cotta says: "There can be no doubt that all true ore beds were originally formed by chemical or mechanical precipitation from water. The formation of fissures, as well as their filling, is continuous. Metaliferous veins, which from their nature were formed at great depth, could first attain the surface only by means of a great, and consequently very long continued decomposition and erosion of the rocks covering them."

Professors Dana and Le Conte of this country, both maintain the hypothesis of mineral precipitation from hot chemical solutions, and there are many cogent reasons for believing that they are correct in their philosophy.

Now, if we concede the fact that the contents of metalliferous veins were supplied from the environing rocks by the leaching chemical processes just referred to; and if we admit further, that electro-magnetism was the active agent in the work of atomic aggregation, then we are forced to the conclusion that such agencies when acting upon a wide mineralized zone—traversed and permeated by many contiguous channels of conduction—would be likely to effect a vastly greater amount of metallic aggregation in the combined centres of action, than could possibly be effected by a feeble electrical current, traversing one isolated fissure far removed from the true zone of electro-chemical energy.

It will not do to assert that isolated veins are universally barren. I am not aware that the fact has been satisfactorily proved in a single instance, for, as before stated, mineralized veins and ore-channels usually exists in groups, or families, and are therefore rarely found isolated and alone. I believe however, the reasoning above advanced is logical, and as the property under consideration in this Report is almost wholly undeveloped, I am compelled to substitute rational theories for unknown facts. As I understand it, the motive in calling in the services of the practical geologist, or of the experienced mining expert, is for the purpose of obtaining every phase of truth—in relation to a given property—which his experience and philosophy is capable of supplying, and is not for the purpose of obtaining a melange of rose-colored gibberish alike deceptive and ruinous to both mine owners and stockholders. The property which I am here delineating, is

an isolated ore-channel. So far as I can ascertain, there is not another mineralized vein, of any appreciable value, anywhere in its vicinity, and for the reasons before stated, I hold that its isolation is not a favorable augury of its prospective value.

It is held by mineralogists that the presence of eruptive trap dykes in the vicinity of ore-bearing veins, is a good indication of fertility. This opinion is based upon the theory already advanced, that the intense heat occasioned by the eruptive mass produced powerful electric currents through the neighboring fissures and thereby facilitated the work of mineral deposition. This theory receives some degree of confirmation in the fact that most of the rich deposits of gold, silver, lead and copper, which have been discovered in Eastern Maine, exist directly along the coast, in a region of country which has been torn and twisted by innumerable dykes of volcanic matter. Judging from a wide area of field exposures, there is not the slightest evidence of volcanic disturbance anywhere in the region surrounding the Saunders Mine and we are therefore deprived of that auxiliary of lode mineralization.

It is claimed by the owners of this property, that the vein contains a reasonable percentage of gold—in fact that gold is the predominating metal. I have not had the opportunity of making a test of the ore myself, but as the vein-stuff resembles gold-bearing materials, I do not doubt that it contains the royal metal; but here again, we are confronted by the disheartening fact that, as a rule, matrix gold is a merely superficial deposit which rapidly fades out as vertical depth is attained and finally disappears from the lode entirely. There are a few known exceptions to this rule, but the bitter experience of gold miners in the far west has long since proved the unreliability of gold-bearing quartz veins. A satisfactory theory for this surface position of gold in auriferous veins, has not been advanced by contemporary mineralogists. As gold is one of the heaviest of known substances, the natural conclusion is that it ought to exist at profound depths in the enclosing matrix. Experience has proved that such is not the case, and we are therefore driven to the alternative of recent deposition. All substances—no matter how refractory—meet with solvents in the grand laboratory of nature, and from its present position in the crystalline rocks, it is evident that gold was, comparatively, a recent precipitant from chemical solutions; for, as a rule, it only occurs in veins at or near the surface, while silver—the vastly more ancient deposition, penetrates to the profoundest depths, and must therefore have been precipitated many ages before its royal companion—gold.

The remaining hope of prospective value to the Saunders mine rests in the fact that its ores may contain a small percentage of silver. It is a well authenticated and highly encouraging fact that, when silver exists—even in small quantities—in true fissure veins, the precious metal always increases in volume and in richness as depth increases below the surface. It is equally gratifying to know that the refractory substances such as sulphurets of zinc, iron, lead, antimony, and the like, which usually appear at the apices of silver-bearing lodes, rapidly fade out at every increasing fathom of excavation, and ultimately give place to the more precious metal. That silver exists in small quantities in the ores of the Saunders Mine is doubtless true, and it is possible that at some depth from the surface that metal may be found in paying quantities. As the ore vein is composed of imperfect quartz however, and as the vein is narrow, feebly mineralized, and environed by tough argillaceous schists, the prospect for speedily encountering a rich ore deposit, is not encouraging.

The lithological and mineralogical adjuncts of the Saunders Mine may be briefly enumerated as follows: The environing walls of the vein are tough blocky schistose rocks, which are slightly micaceous and also slightly gneissoidal in structure. The vein has been exposed to the depth of about four feet by a surface excavation, and at that depth appears as a band of imperfect quartz and slaty material, having a breadth of fifteen inches. This seam of quartz appears to be mineralized with iron pyrites, pyrrhotite, and slight indications of sulphuret of copper. As before stated, the vein-stuff of this vein resembles auriferous materials; but there are no particles of gold observable. That the vein occupies a true fissure in the enclosing schists, is apparent from its appearance at some distance to the north and south of the excavation. By the compass, the trend of the vein is north 15° east, and its dip is nearly perpendicular. I have stated about all that can be safely stated about the Saunders mine. That it is a true mineralized vein of imperfect quartz, cannot be questioned. That it contains small quantities of the precious metals, even at the surface, is doubtless true; but for the exhaustive reasons already advanced in the body of this Report, I cannot conscientiously advise the owners of the property to risk much capital toward its future development.

Very respectfully yours,

W. F. STEWART.

Blue Hill, Me., March 16, 1880.

CORRESPONDENCE.

Meeting of Blue Hill Mining Superintendents.

Editor Maine Mining Journal:

In view of a contemplated general strike among the miners of this district a meeting of the superintendents of the different mines was held this evening, at which a very decided position was taken in regard to strikes and strikers and the following resolutions adopted:

Resolved, That we will not employ any man who strikes or incites a strike, or who is in the habit of shifting from mine to mine. Each superintendent shall be furnished with a list of men so acting, that they may be known among the mines.

Resolved, That in hiring men the foreman shall be instructed to tell all persons seeking employment, that they shall be required to lose five days' wages by neglecting to give five days' notice of their intention of leaving.

A schedule of prices was also adopted fixing the pay of all employees. After transacting other general business the meeting adjourned to meet at the call of the chairman. The superintendents present represented some seven millions of capital. The organization was made permanent by the choice of the following officers: Superintendent Chas. Duff of the Twin Lead, President; Supt. Edward M. Le Prohon, Atlantic. Secretary. Various matters pertaining to the mining interests of this State were discussed with an earnestness and unanimity that argues well for the future mining interests of this district.

Blue Hill, Me., March 31, 1880.

Cherryfield.

To the Editor of the Maine Mining Journal:

There has been a mining company formed here to-day for the purpose of developing a vein of gold-bearing quartz situated near Sprague's Falls in this town, on land owned by George Wakefield, Esq., and S. F. McCaslin, Esq., both residents of our village. The vein is of such a character that specimens at the depth of some five feet have been obtained by the aid of pickaxe, crowbar and shovel without blasting; the assays of which have proved so satisfactory that our citizens are willing to put their money in for the purpose of developing the mine. J. P. Nickels, Geo. Wakefield, Harvey Bartlett, W. C. Ricker and Robert Moore have been chosen a Board of Directors, and C. P. Nickels Secretary and Treasurer.

The company mean business and will commence sinking a shaft as soon as the snow is off. They already have lumber on the ground for the necessary buildings. I am informed that a limited number of shares of the capital stock will be put upon the market to obtain funds for a working capital, and the great popularity of the stock already, among our own citizens, will be regarded by outsiders as evidence of the company's soundness. The stock is now offered at 25 cents per share, par value \$5. Capital stock, \$400,000.

Another thorough test of this vein will also be made as soon as the snow leaves sufficiently, about a mile west of the above named company's location, on land owned by Smart and Webber, where a well defined vein of quartz two and one-half feet wide on the surface, presents specimens promisingly mineralized.

A. S. Jarvis of this town has leased a lead of galena-bearing quartz some three-fourths of a mile south of the above named mines, and will also commence sinking a shaft this spring. Specimens from this mine have assayed \$20 in silver to the ton.

There is a vein of quartz between the two above named, on land owned by Truman Leighton, Esq., specimens from which present so favorable a showing that work on it will no doubt be commenced this spring.

One of the best mill privileges in the State is located within a mile of these mines, which is regarded as altogether favorable for the erection of any works necessary for the smelting or reduction of the ores.

Cherryfield, March 31, 1880.

Franklin.

Editor of the Maine Mining Journal:

Mr. Eugene J. Swan of Franklin, Hancock county, has been very quietly sinking a shaft for the past three months on land owned by Wm. N. West near the telegraph road and close by an ever running brook, known as the "West Brook," in the village of Taunton. The shaft is nearly twenty feet deep—very nicely timbered twelve feet—it has a windlass and blacksmith shop, and all in fine running order. A fourth man has

been added to the shaft crew, and the showings of late have been encouraging. This shaft was started on a quartz vein about one foot wide assaying silver on the surface. The vein is now nearly three feet wide, with perfect walls and clay seam. Assays made by State assayers of Maine and Massachusetts, run well in gold and silver, while fine specimens of copper have of late been taken out. Mr. Swan is willing with the prospects to run it alone at present.

REPORTER.

A Mining Expert's Terrible Experience in a Nevada Ore Shaft.

Nearly a week since Louis Blanding, one of the best known mining experts on the coast, passed through this city on his way from San Francisco to examine the Santa Anita quartz mine, which is situated near Washington, twenty-one miles above here. Day before yesterday he returned, having accomplished his object. His experiences on the trip were of an interesting nature, and it is by mere chance that he was enabled to live and relate them. After a tedious journey through the snow he reached the home of one of the owners of the claim, and together they forced their way for three miles farther to the mine. Lighting candles they entered the tunnel, which had been pushed toward the heart of the mountain distance of 130 feet. Twenty-five feet from the head of it they came to a winze fifty-six feet deep. Over this winze is a windlass. Mr. Blanding examined it carefully, and observing no weak spots in its construction, had his companion let him to the bottom. He inspected the ledge, made measurements, secured a sack of specimens, and, putting one foot in the bight of the rope, shouted to the man above to hoist away. After ascending thirty feet he ceased to rise.

"What's the matter?" he asked.

"The windlass is broken," was the reply.

"Fix it and hoist away."

"I can't. The support at one side has broken down. One end of the drum has dropped to the ground. My shoulder is under it, and if I stir the whole thing will give way," was the startling reply that came back.

The candle at the top had been extinguished. Mr. Blanding recognized the urgency of having a cool head in such an emergency, and told the other party to take things easy. He dropped the candlesticks, sack of specimens and the hammer to the bottom of the winze. Then bracing one of his shoulders against one side of the hole and his feet against the other, worked his way up inch by inch, the owner taking in the slack of the rope with one hand. Thus he ascended about ten feet. Then the sides of the winze grew so far apart that his plan could no longer be pursued. There was but one salvation. The remaining ten feet must be climbed "hand over hand." Releasing his feet from the knot he put the idea into practice. Exhausted by his previous efforts in walking to the mine and exploring it, it seemed to him he had climbed a mile, and stopping to rest, found by the voice above that he had yet five feet to go. With another superhuman effort, another start was made. After what seemed an age, one of his hands struck the edge of the covering on one side of the mouth. His body and limbs were suffering the agonies of cramps and soreness, and his brain began to reel. All sorts of frightful phantoms filled his mind. With a final effort he reached up and found he could get the ends of one hand's fingers over the edge of a board that answered for part of the covering. With the despair of a man who faces a fearful death and knows it, he let go the rope altogether, and raising the other hand obtained a precarious hold. His body swung back and forth over the dark abyss an instant, and as he felt that his hands were losing their hold, he cried, "Save me quick, I am going!"

Just then his companion, who is a man of great strength, dropped the end of the drum, and grasping his coat collar, drew him out on the floor of the tunnel.

The mining expert was utterly prostrated as his rescue was effected. He was carried out of the tunnel, his clothing dripping in perspiration, and laid in the snow. When partially recovered he

was assisted to a house three miles away. His whole frame was so racked with the physical and mental torture, that for several hours he had no use of his limbs. Two days after he returned to the mine and with an iron bar broke the windlass into a thousand pieces, then fished the sack of specimens out of the winch. During a whole lifetime of mining adventures in some of the deepest claims of the world, he has never been so near the door of death as he was at the Santa Anita, and he hopes never to pass through the like again.—*Nevada Transcript*.

Steamer Line to Blue Hill.

The Bangor and Bar Harbor Steamboat Company propose to run a line of steamers between Bangor and Blue Hill the coming season, commencing as soon as the river is open to navigation. The "May Field" already makes a weekly trip from Bucksport to Blue Hill and return, and as soon as the ice will permit, the "City of Bangor" will be put on the route, when two weekly trips will be made leaving Bangor Monday and Thursday mornings at 8 o'clock, and leaving Blue Hill on the return trip Tuesday and Saturday mornings, thus giving passengers by Thursday's boat an opportunity to stop over Friday and return the same way on Saturday. During the summer one of these popular steamers will also make two trips each week to Bar Harbor, touching at Sedgwick, Deer Isle, and the various river landings. At Sedgwick connections are made with stages for Blue Hill, thus furnishing a desirable means of communication between Bangor and Blue Hill four times each week.

Oil and Rubber Clothing.

Attention is called to the card of Frank D. Pullen, in another column. Mr. Pullen has a full line of waterproof clothing, hats, caps, boots, etc., such as are required not only by miners but by all visiting the mines. Whoever is fortunate enough to have dealings with him will find him thoroughly reliable in every respect. His goods are of first quality and sold at lowest market prices.

LODES, LEADS AND VEINS.

NOROMBEGA.—The shaft is down 30 feet and the ore is abundant and rich.

CONSOLIDATED HAMPDEN.—The work is progressing very favorably. The shaft has reached a depth of 115 feet. Prof. Stewart during the past week visited the mine and has prepared a supplementary report which will be found elsewhere in this issue. The prospects of the mine are surely flattering. The company have \$8,100 and 60,000 shares in the treasury. The price of stock has been advanced from 75 cents to \$1.

LAWRENCE.—The shaft is down 27 feet. The bottom of the shaft is richly mineralized. Some very handsome ore has been taken out in the past few days. The ore contains gray copper, galena and copper sulphurets.

SNOW.—The shaft is now down 33 feet, and the quartzite and the band of black slate have merged into a solid mass of what appears to be a species of black quartz, heavily charged with the base metals. The four-foot band of white quartz continues on the foot-wall side. The workmen are at present engaged in making a sump to receive the surface water, and a new pump is about to be put in. Two shafts are working by day and one by night.

COMSTOCK.—A shaft of sufficient size to admit of double compartments has been started. Mr. John Roberts, an experienced miner from the West who comes highly recommended, has charge of the work. A blacksmith shop, tool house and other buildings are being built, and a shaft house will soon be erected. One crew of five men are now working by day and a night shift will shortly be put on. The company offer 5,000 shares of the treasury stock for sale at their office in Boston, at 50 cts. a share.

BOSTON & BUCKSPORT.—A company is soon to be formed under the above name, to operate on an extension of the Snow vein, at Bucksport, and about 75 rods distant from the Snow mine. The property embraces 907 feet of the vein and is 330 feet wide. The capitalization will be \$500,000 divided into \$5

shares, 30,000 of which will be placed in the treasury. A shaft is in progress. The stock is offered for sale in lots of 50 shares and upward at 20 cents per share. The managers are well-known business men of Bucksport.

GREAT EASTERN.—The Great Eastern Silver Mining Company was organized in this city on Monday last with a capital of \$500,000 divided into 100,000 shares of a par value of \$5. The officers are. President, James Littlefield, of Boston; Secretary, S. P. Johnson of Bangor; Treasurer, E. C. Nichols, of Bangor; Directors, James Littlefield, Payson G. Tozier, H. H. Sawyer, J. A. Nutter, W. B. Eaton, Luther M. Lawrence and B. F. Warner. The property of the company is located at Bucksport on the shore of the Penobscot river and has been known as the Lawrence farm. The surface showing is galena. Mr. Lawrence will superintend the work of development. The company starts out with \$5,000 in cash and 30,000 shares of stock in the treasury.

McFARLAND.—The shaft is down 30 feet, the ore streak has increased to eighteen inches in width and the ore is constantly improving in quality.

WEST BAY.—The surface showings of the West Bay are very remarkable. At a depth of six feet the ore from any part of the vein which is several feet in width assays one hundred ounces of silver to the ton.

PINE TREE.—This mine which adjoins the famous Sullivan, has recently been purchased by Col. Chas. H. Lewis and others and a company has been organized with Gen. John M. Corse as President, with the intention of vigorously pushing the developments. New and improved hoisting works similar in construction to those of the Sullivan, will at once be erected. The shaft has already reached a depth of 130 feet, and it is expected the vein will be tapped at 150 feet. The capital stock is \$500,000 divided into 100,000 shares, of which 20,000 are at once to be placed upon the New York market.

GOLDEN CIRCLE.—The Golden Circle Mining and Milling Company, is now organized and active work will be commenced at once. A correspondent in Portland states that assays made by Prof. Sharples, from average ore, gave 22 oz. Troy, in gold, to the ton, or at \$20.67 per oz.—\$457.74. Another from clear quartz rock gave 10 oz. Troy or \$206.70.

GRANT.—Shaft down 80 feet. Fine looking ore is being taken out.

EAST BLUE HILL.—Two shafts are in progress, each about twenty feet in depth, well timbered, and everything connected with the mine is in first class working order.

BAY VIEW.—Shaft down about 22 feet and going every day. A vein showing considerable copper and a little iron was exposed on Friday. A new vein has been found a little to the west on the shore which shows very rich in blue and yellow copper. Day and night shifts are now at work, and the contractors Messrs. Leith and Bissett are pushing work as rapidly as possible.

JERSEY.—On Saturday a vein of quartz was struck showing copper in large quantities. The shaft is now down about 15 feet from the surface. A night crew will soon be put on.

BLUE HILL CENTRAL.—Mr. Hanson, of Lee, is to assume the Superintendency of the mine. He is now arranging for sinking a shaft.

EASTERN BELLE.—The shaft is down 26 feet. The vein is 2 feet and 9 inches in width of quartz showing well in silver.

FAVORITE.—A shaft is being sunk on a true fissure vein four feet wide on the surface with perfect hanging and foot seams. At a depth of five feet some very handsome copper ore has been taken out.

STOVER HILL.—Rapid progress is made in the drift and the vein is thought to be not far distant. It is the intention to extend the drift to the surface on the side of the hill.

CITY OF BOSTON.—The work of development under the direction of Supt. O'Connell is progressing expeditiously. The shaft has reached a depth of 28 feet, is 16 feet by 7 feet in size and has been thoroughly timbered. It is proposed to start two more vertical shafts, one 300 feet north of the granite wall and another 300 feet further to the north. At a depth of 100 feet a cross-cut will be made across the whole zone. On every vein that is cut drifts will be commenced. The company will be organized in about one month.

ATLANTIC.—The cross-cut has been pushed well into the vein, and drifting will at once commence. The work of sinking the shaft will also continue.

DOUGLASS.—Workmen are busily engaged on the frame for the new mill and work continues as usual in the drifts.

WHITE STAR.—The property has been prospected and a vein 9 feet wide thoroughly mineralized with copper ore and extending one half mile on the property of the company has been discovered. Work is progressing in the shaft and a depth of 22 feet has been attained.

TRIO.—A thorough prospect of the property has been going on. The northern vein has been traced thirty rods to the west of where the vein was first opened and the vein has increased in width from two to twelve feet. Several prospect holes have been sunk and ore very rich in the sulphurets of silver has been discovered.

DEER ISLE.—The Deer Isle is showing as well as ever and is in a prosperous condition. The width of the ore body is as yet a matter for conjecture as the south wall has not been dislosed. Four samples of the ore recently assayed by Prof. Bartlett, intending to represent the different grades from the very lowest to the highest, gave respectively \$32.24—\$59.65—\$358.62—\$2,485.96 to the ton.

DEER ISLE, JR.—A contract has been made with Gardner Floyd to sink a shaft 100 feet.

ISLAND CITY.—The company have secured the services of Mr. Simon G. Webster as superintendent who will at once commence sinking a shaft on the property. Twenty thousand additional shares have been placed in the treasury, giving a working capital of 40,000 shares and \$2,500 cash, which should be amply sufficient to develop the mine.

FARNHAM.—In our notice of the organization of this company in our last issue, the number of shares should have been given as 100,000 instead of 500,000, and their par value \$5 instead of \$1, with 40,000 in the treasury. The shaft has been sunk to a depth of about 7 feet, and fine looking ore is being taken out. A substantial shaft house and blacksmith shop is being erected, upon the completion of which the developments will be pushed rapidly. Five thousand shares of the treasury stock have been placed upon the market, and have met with a ready sale.

KATAHDIN IRON WORKS.—The furnace was "banked up" on Wednesday of last week and wind taken off for about two weeks, in order to accumulate charcoal. The coal kilns and mines are being worked as usual. Wood chopping has been closed up and teams discharged, over twelve thousand cords of wood having been hauled to the works since Dec. 1, 1879. By April 5th, it is expected that wind will be put on again and that there will be charcoal and ore enough in addition to the daily receipts to run the furnace during the rest of the year. Allen McDonald, contractor for ore, last week delivered one load of ore weighing 15,110 pounds from the mine to the furnace bank, a distance of one mile, with two horses belong to S. A. Douglas, of Milo.

OSHKOSH.—Mr. E. C. Nichols, President of the company, will leave for Colorado in about two weeks. The company have sold nine thousand shares of stock and are in good financial condition.

Nuggets.

Promising mineral discoveries are reported at Dexter and Cambridge.

A new paper to be called the *Sullivan Bulletin* is about to be issued at Sullivan.

Portland parties have taken mineral leases of a number of farms in the western part of the town of Frankfort.

Fresh discoveries of the precious metal have recently been made in the Pictou gold diggings and lively times are anticipated the coming season.

One of the severest snow storms of the season swept over Eastern Maine the latter portion of last week and buried everything under snow drifts of huge proportions.

The Trio group of veins have been traced across the Salt Pond to Blue Hill Neck and a company will soon be formed known as the Victoria to operate on the property located on the eastern shore of the pond.

A property in the town of Burlington is to be at once developed. It is generally known as the Batchelder farm. A contract has been made with Asa Quint to sink a shaft. Mr. Quint has had experience in the mines of Australia and Nova Scotia.

The St. Stephens correspondent of the St. John Telegraph says: "It is rumored that a company has been formed in England to work a copper mine near Moore's Mills. Charlotte county abounds in valuable minerals, and may yet become a rich mining district.

The copper mines of Cape Breton are coming into notice. Immense deposits of ore exist in that locality which are apparently as rich and extensive as those of Betts Cove, Newfoundland. Several shafts have been started, and one at Eagle Head is reported to have reached a depth of 100 feet.

A copper bearing quartz vein has been discovered on the river bank in Orrington by Mr. O. R. Smith of that place. Mr. Smith also proposes to develop another vein which crops out on the opposite shore some distance below. Both these localities are within a half mile of the steamer-landing at Hampden.

It is reported that J. C. Tripp who discovered the Corinna and St. Albans mines has recently discovered some extensive and rich mines of silver, lead and other valuable ore with indications of gold in North Monson on the old Elliottsville road. This mineral is situated on the "Drake farm" so called, and Mr. Tripp has leased the premises for 99 years and commenced operations Tuesday morning. Considerable excitement prevails there in regard to the discovery.

The Harvey Hill Enterprise Company has been formed in Burlington, Penobscot county, and embraces the following members: Thomas W. Porter, Silas E. Woodman, Dr. S. W. Bragg, John W. Fox and J. P. Woodman. The company have bonded a half dozen lots of land in Burlington and Lowell for mineral purposes. The company are interested in the mineral right of over 20,000 acres of land in the counties of Penobscot, Piscataquis, Aroostook, Franklin and Hancock.

There is quite an excitement in Unity over the discovery of a silver mine; it was discovered by Richard Whitten on land owned by Joseph Murch of Unity. Specimens were shown to several old Californian miners, who immediately investigated the matter, purchased the mine and have organized a company with the following officers: C. E. Mitchell, President; Ansel Perkins, Treasurer; Dr. B. B. Whitney, Secretary; with Superintendent and five directors. The surface prospect is claimed to be as good as any in this State. The mine will be opened as soon as the necessary arrangements can be made.—[*Belfast Age*.

The Halifax Herald says the gold mines at Montague, Nova Scotia are in a flourishing condition. The two mines—the Rose and Symonds—employ 80 men and have taken out upwards of \$50,000 in the past nine months. The Rose Lead has an 8

stamp mill, recently erected, and as a result of their first crushing (about 90 tons of quartz) have just shipped a bar of gold weighing 370 oz. Other properties in the vicinity are looking finely and the land is rapidly being taken up. Moose River, a comparatively new district, is turning out splendidly and is expected to prove one of the finest districts in the province; in fact there seems to be bright prospects ahead in all the old and many of the new districts.

Some years ago a California miner named Shephard, claimed to have discovered gold and silver on Deacon Kelley's land in Baileyville. He made arrangements to sink a shaft and got all ready to begin, when he was called away suddenly to attend to his California business. Other parties began work and got some rich specimens, but being unfamiliar with the business, and no one believing then that Maine was a mining state the work was abandoned, but all who examined the ground have ever since insisted that valuable mines exist there. Since mining has begun in earnest many have recalled the old miner's assertion that gold existed in this land in large quantities. Several have talked of sinking a shaft there and undoubtedly it will be done, as if any mines in Maine exist, this in Baileyville is surely a good one.—[*Calais Advertiser*.

A mining engineer and expert of many years experience, well known in Boston, recently made a tour of the mining districts in Maine, and was so well pleased with the prospects, that he is soon to return and take up his residence with us. We are permitted to publish the following extract from a letter to a gentleman in this city: "My preferences are for Blue Hill mines, for those seem to me to be the basis for a great mining region and the most promising one in Maine. There are plenty of promising mines outside of Blue Hill, and some of them even with the limited developments, showing great richness. But at Blue Hill the properties are of such magnitude, and such a number of them, and showing such a quick improvement in value and apparent permanency that I think it will soon show to be the most active and prosperous mining town this side of the 'Rockies.' Our Boston people are gradually changing their opinions regarding 'Maine mines,' but we have plenty of croakers and pig-headed men here, left, to supply the world with seed. Perhaps it is better that kind of seed should be left in Boston to die out, than to be scattered over the world."

New Publications.

NEW YORK MINING DIRECTORY. *A Directory to all the Mining Corporations Represented in New York, Location of Mines, Capitalization, and Par Value of Stock, also the New York Mining Stock Exchange, Constitution, By Laws and Membership with Addresses, With other Valuable Information.* New York, 1880. Published by HOLLISTER & GODDARD. Price \$1.

This work contains, in a convenient form, so much information that no one interested in mining matters can afford to be without it. In addition to a complete list of all mining companies having offices in New York, it gives the rules which govern the Mining Stock Exchange, the names and addresses of all members, together with the form of statement required from any company applying to be listed. For sale at this office.

THE COMSTOCK LODGE.—Its Formation and History, by JOHN A. CHURCH, E. M. PH. D., member of the American Institute of Mining Engineers. New York, 1879, JOHN WILEY & SONS. Price \$7.50.

This is an exhaustive treatise on the Comstock Lode in general and the Comstock mines in particular, containing a complete history of the lode rocks from the beginning to the formation of the quartz-bodies, accurately describing and showing by plates the position of the bonanzas, with correct statements of the amount of ore which has been taken out and the prospects for future yield. It also contains valuable information concerning the manner in which the obstacles to be encountered in deep mining—such as the intense heat and the flow of

water—may be overcome. To the student of geology as well as to the practical miner this work will be invaluable and is well worth the price asked. It is published in quarto form, is beautifully printed and illustrated by six plates and thirteen figures. It may be obtained at this office.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 31, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Aztec.....	1 1/2	1 3/4	...	...	1 1/2	...	1 1/2	1 3/4	1 1/2	...	1 1/2	...
Atlantic L. S.....	20	22	...	...	20	...	20	...	20	...	21	...
Allouez.....	15 1/2	20	...	...	17 1/2	...	18	...	16	...	17 1/2	...
Blue Hill Copper.....	9 1/2	10	...	...	10	...	9 1/2	10 1/2	9	...	9 1/2	...
Calumet & Hecla.....	24 1/2	...	...	...	240	...	240	...	240	...	237 1/2	...
Central.....	...	47 1/2	...	...	...	...	...	...	...	...	...	...
Copper Falls.....	12	12 1/2	...	...	11 1/2	...	11 1/2	...	12	...	12	...
Duncan Silver.....	...	3	...	...	2 1/2	...	2 1/2	...	2 1/2	...	2 1/2	...
Franklin.....	13 1/2	...	...	...	18	...	15 1/2	...	20	...	19 1/2	...
Harshaw.....	20	22	...	...	21	...	21	...	25	...	23 1/2	...
Huron.....	9 1/2	...	...	...	7 1/2	...	7 1/2	...	8 7/8	...	9	...
Mesnard.....	3 1/2	...	...	...	3 1/2	...	3 1/2	...	3	...	2 1/2	...
National.....	3 1/2	...	...	...	3 1/2	...	3 1/2	...	3 1/2	...	3 1/2	...
Oscoda.....	...	43	...	...	36	...	36	...	38	...	34	...
Pewabic (new stock).....	29 1/2	...	...	...	28	...	29	...	28	...	28	...
Phoenix.....	...	...	...	...	10	...	...	...	...	...	...	...
Quincy.....	36	36 1/2	...	...	34 1/2	...	35	...	35	...	34 1/2	...
Ridge.....	...	1 1/2	...	...	...	...	6	...	6 1/2	...	6 1/2	...
Silver Islet.....	14	...	...	...	...	...	...	...	14 1/2	...	14	...
Star.....	2 1/2	2 1/2	...	...	2 1/2	...	2 1/2	...	2 1/2	...	2 1/2	...
Sullivan.....	13 1/2	...	...	...	12 1/2	...	12 1/2	...	12 1/2	...	12 1/2	...
Waukeag.....	...	...	...	...	7 1/2	...	...	...	...	...	...	...

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 31, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Acton.....	21	...	...	...	...	...	...	...	...	...	...	...
Ashley.....	1 75	...	...	...	...	...	...	...	...	...	...	...
Ammonoosuc.....	1 00	...	...	...	...	...	...	...	...	...	...	...
Atlantic.....	1 95	...	...	...	...	...	...	...	...	...	...	...
Blue Hill.....	10	...	...	...	...	...	...	...	...	...	...	...
Corinna.....	1 75	...	...	...	...	...	...	...	...	...	...	...
Cherryfield.....	...	...	...	...	...	...	...	...	...	...	...	...
Deer Isle.....	2 75	...	...	...	...	...	...	...	...	...	...	...
Dirigo.....	6 50	...	...	...	...	...	...	...	...	...	...	...
Douglas.....	...	...	...	...	...	...	...	...	...	...	...	...
Edgemose.....	1 00	...	...	...	...	...	...	...	...	...	...	...
Ellsworth.....	...	...	...	...	...	...	...	...	...	...	...	...
Favorite.....	13	...	...	...	...	...	...	...	...	...	...	...
Forest City.....	...	...	...	...	...	...	...	...	...	...	...	...
Fort Knox.....	3 25	...	...	...	...	...	...	...	...	...	...	...
Gouldsborough.....	...	...	...	...	...	...	...	...	...	...	...	...
Grant.....	...	...	...	...	...	...	...	...	...	...	...	...
Hamden.....	...	...	...	...	...	...	...	...	...	...	...	...
Harrington.....	25	...	...	...	...	...	...	...	...	...	...	...
Horne.....	2 00	...	...	...	...	...	...	...	...	...	...	...
Milton.....	3 50	...	...	...	...	...	...	...	...	...	...	...
Mineral Hill.....	...	...	...	...	...	...	...	...	...	...	...	...
Owls Head.....	25	...	...	...	...	...	...	...	...	...	...	...
Pettit Menan.....	1 00	...	...	...	...	...	...	...	...	...	...	...
Portland Acton.....	13	...	...	...	...	...	...	...	...	...	...	...
Robert Emmett.....	1 50	...	...	...	...	...	...	...	...	...	...	...
Slover Hill.....	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan.....	3 00	...	...	...	...	...	...	...	...	...	...	...
Twin Lead.....	3 00	...	...	...	...	...	...	...	...	...	...	...
Waukeag.....	5 00	...	...	...	...	...	...	...	...	...	...	...
Young Hecla.....	1 50	...	...	...	...	...	...	...	...	...	...	...

There will be a special meeting of the stockholders of the Acton, Boston Acton, Portland Acton and Forest City Mining Companies, at the office of Rollins & Adams, 22 Exchange St., Portland, on Friday, April 16th, to see if the companies will authorize the Directors to sell their properties to the ACTON CONSOLIDATED MINING AND MILLING CO., or make other arrangements for the practical consolidation of said companies.

MAINE MINING DIRECTORY.

INCORPORATED COMPANIES.

Acton Silver Mining Co., Acton, Me.
 American Union S. M. Co., Hancock, Me.
 Ammonoosuc Copper Mining Co., Gardner Mountain, N. H.
 Androscoggin Acton Silver Mining Co., Acton, Me.
 Appleton Mining and Smelting Co., Camden, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Atlantic Copper Mining Company, Blue Hill, Me.
 Bangor & Blue Hill Falls Mining Co., Blue Hill, Me.
 Bay View Silver and Copper Mining Co., Blue Hill, Me.
 Bisbee Copper Mining and Smelting Co., Blue Hill, Me.
 Blue Hill Bay Silver Mining Co., South Surry, Me.
 Blue Hill Central Copper Mining Co., Blue Hill, Me.
 Blue Hill Copper Mining and Smelting Co., Blue Hill, Me.
 Boston Acton Silver Mining Co., Acton, Me.
 Boston Silver Mining Co., Ellsworth, Me.
 Bucksport Silver Mining Co., Bucksport, Me.
 Bullion Mining and Milling Co., Acton, Me.
 Candage Copper Mining Co., Blue Hill, Me.
 Carroll Silver Mining Co., East Wakefield, N. H.
 Carter Silver Mining Co., Long Island, Blue Hill, Me.
 Casco Mining Co., Acton, Me.
 Castine Mining Co., Castine, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Clark Silver Mining Co., Franklin, Me.
 Colorado Chemical and Smelting Co., Winterport, Me.
 Comstock Silver Mining Co., Bucksport, Me.
 Consolidated Hampden Silver Mining Co., Hampden, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Darling Silver Mining Co., Blue Hill, Me.
 Deering Acton Silver Mining Co., Acton, Me.
 Deer Isle Jr., Silver Mining Co., Deer Isle, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Denbo Silver Mining Co., Lubec, Me.
 Dick and Williamson Mining Co., Le Tete, N. B.
 Dirigo Copper Mining Co., Blue Hill, Me.
 Dirigo Silver Mining Co., Acton, Me.
 Douglass Copper Mining Co., Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Eastern Star Silver Mining Co., Ellsworth, Me.
 East Surry Silver Mining Co., East Surry, Me.
 Edgemoggin Silver Mining Co., Sedgwick, Me.
 Egypt Silver Mining Co., Franklin, Me.
 El Dorado Silver Mining Co., Acton, Me.
 Ellsworth Silver Mining Co., Ellsworth, Me.
 Eureka Mining Co., Blue Hill, Me.
 Farnham Silver Mining Co., St. Albans, Me.
 Favorite Copper Mining Co., Blue Hill, Me.
 Faneuil Hall and Sullivan Mining Co., Sullivan, Me.
 Fort Knox Silver Mining Co., Prospect, Me.
 Forest City Silver Mining Co., Acton, Me.
 Franklin Silver Mining Co., Franklin, Me.
 Gardner Mountain Copper Mining Co., Gardner Mt., N. H.
 Globe Silver Mining Co., Gouldsboro, Me.
 Golden Circle Mining and Milling Co., Sullivan, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Grafton Copper Mining Co., Gardner Mountain, N. H.
 Granger Copper Mining Co., Blue Hill, Me.
 Grant Silver Mining Co., Hancock, Me.
 Great Eastern Silver Mining Co., St. Albans, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Hall Mining Co., Blue Hill, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Haviland Copper Mining Co., Gardner Mountain, N. H.
 Home Silver Mining Co., Gouldsboro, Me.
 Island Chief Silver Mining Co., Ellsworth, Me.
 Island City Gold and Silver Mining Co., Vinalhaven, Me.
 Katahdin Iron Co., Katahdin Iron Works, Me.
 Lady Elgin Silver Mining Co., Blue Hill, Me.
 Lawrence Silver Mining Co., Hampden, Me.
 Lebanon Acton Silver Mining Co., Lebanon, Me.
 Little Blue Hill Mountain Mining Co., Blue Hill, Me.
 Little Sue Silver Mining Co., Lamaine, Me.
 Lone Star Gold and Silver Mining Co., Woodstock, Me.
 Maine Acton Silver Mining Co., Acton, Me.
 Maine Silver Mining Co., Dexter, Me.
 Malachite Mining Co., Winterport, Me.
 McFarland Silver Mining Co., Hancock, Me.
 Middlesex Gold Mining Co., Portland, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Mineral Hill Mining Co., East Wakefield, N. H.
 Mineral Spring Silver Mining Co., Palmyra, Me.
 Milton Mining and Milling Co., Sullivan, Me.
 Monarch Mill and Mining Co., Augusta, Me.

Morancy Silver Mining Co., Sullivan, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Norombega Silver Mining Co., Hampden, Me.
 Oldtown Mining Co., Bradley, Me.
 Oshkosh Consolidated Mining Co., Bangor, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Penman Gold Mining Co., Portland, Me.
 Penobscot Mining Co., Penobscot, Me.
 Petit Menan Silver Mining Co., Petit Menan, Me.
 Pine Tree Silver Mining Co., Sullivan, Me.
 Pittston Gold and Silver Mining Co., Pittston, Me.
 Point Pleasant Silver Mining Co., Bucksport, Me.
 Porterfield Ledge Mining Co., Camden, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 Portland Blue Hill Mining Co., Blue Hill, Me.
 Portland Sullivan Silver Mining Co., Sullivan, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Revere Silver Mining Co., Blue Hill, Me.
 Riverside Mining Co., Camden, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Silver Reef Mining Co., Blue Hill, Me.
 Snow Silver Mining Co., Bucksport, Me.
 Sullivan Falls Silver Mining Co., Sullivan, Me.
 Stover Hill Copper Mining Co., Blue Hill, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Swan's Island Silver Mining Co., Swan's Island, Me.
 Swan Mining Co., Franklin, Me.
 Trescott Mining and Manufacturing Co., Trescott, Me.
 Trio Silver Mining Co., Blue Hill, Me.
 Twin Lead Copper Mining Co., Blue Hill, Me.
 Victor Silver Mining Co., Gouldsboro, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 West and Sowle Silver Mining Co., Gouldsboro, Me.
 Western Union Silver Mining Co., Hancock, Me.
 West Bay Silver Mining Co., Gouldsboro, Me.
 White Star Silver and Copper Mining Co., Blue Hill, Me.
 Young Hecla Copper Mining Co., Blue Hill, Me.

PRIVATE COMPANIES.

Antimony Silver Mining Co., Levant, Me.
 Argonaut Silver Mining Co., Hampden, Me.
 Arctic Mining Co., Blue Hill, Me.
 Bassick Silver Mining Co., Lowell, Me.
 Barnes' Strike, Bucksport, Me.
 Beacon Hill Silver Mining Co., Sullivan, Me.
 Blue Hill Valley Copper Mining Co., Blue Hill, Me.
 Boston and Bucksport Silver Mining Co., Bucksport, Me.
 Boyd Gold Mining Co., Carmel, Me.
 Britton Silver Mining Co., Cherryfield, Me.
 City of Boston Copper Mining Co., Blue Hill, Me.
 Eastern Belle Gold and Silver Mining Co., Penobscot, Me.
 Eastman Silver Mining Co., Hampden, Me.
 Emma Albina Silver Mining Co., No. Penobscot, Me.
 Enterprise Silver Mining Co., Blue Hill, Me.
 Eskutassis Gold Mining Co., Lowell, Me.
 French Silver Mining Co., St. Albans, Me.
 Gould Silver Mining Co., St. Albans, Me.
 Gray Silver Mining Co., Blue Hill, Me.
 Guilford Silver Mining Co., Guilford, Me.
 Hamilton Mining Co., Blue Hill, Me.
 Hector Silver Mining Co., Gouldsboro, Me.
 Hillside Silver Mining Co., Hermon, Me.
 Holland Silver Mining Co., St. Albans, Me.
 Holmboe Copper Mining Co., Orrington, Me.
 Jersey Copper Mining Co., Blue Hill, Me.
 Mascarene Mining Co., St. George, N. B.
 McIntyre Copper Mining Co., Blue Hill, Me.
 Morris Silver Mining Co., Acton, Me.
 Orient Silver Mining Co., Newport, Me.
 Pearl of the East Silver Mining Co., Franklin, Me.
 Porter Silver Mining Co., St. Albans, Me.
 Russ Clay Gold and Silver Mining Co., No. Blue Hill, Me.
 Shorey Silver Mining Co., Lowell, Me.
 Silver Isle Silver Mining Co., Franklin, Me.
 Silver Bonanza Mining Co., Surry, Me.
 Silver Wave Silver Mining Co., Acton, Me.
 Star of the East Mining Co., Blue Hill, Me.
 State of Maine Silver Mining Co., Franklin, Me.
 Somerset Silver Mining Co., St. Albans, Me.
 St. George Silver Mining Co., St. George, N. B.
 Storm King Silver Mining Co., Blue Hill, Me.
 Tip Top Silver Mining Co., Blue Hill, Me.
 Tugwassa Silver Mining Co., Sullivan, Me.
 Victoria Silver Mining Co., Blue Hill, Me.
 Whitten Silver Mining Co., Hancock, Me.
 Wing's Mills Silver Mining Co., Hampden, Me.
 York County Silver Mining Co., Acton, Me.

ACTON SILVER MINING COMPANY, ACTON,
Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.

IVORY LIBBEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL,
Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Biagg, Bangor. Directors—F. M. Laughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.

E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec, 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St., Portland Me.

E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING COMPANY,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.

WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each; Treasury Fund, 36,000 Shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors—John Bird, George H. Cleveland, Moses Webster, S. E. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.

CHARLES K. MILLER, Supt., Camden.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodson, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.

B. O. CUTTER, Supt.

BLUE HILL COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manerling Emery.

B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon. S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.

A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson of Bangor; Vice-President, John S. Jenness of Bangor; Treasurer, Edward B. Nealley of Bangor; Secretary, John R. Mason of Bangor; Directors—Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.

BOSTON ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Dennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

BULLION MINING AND MILLING COMPY
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Matlocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth. Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

CONSOLIDATED HAMPDEN SILVER MINING CO.,
Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares, \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Laughton, Bangor. Vice-President, Wm. H. Strickland, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, Wm. H. Strickland, Geo. A. Wadley, C. F. Bragg, F. W. Hill, J. P. Tucker.

CHARLES DIXTON, Supt.

COMSTOCK SILVER MINING COMPANY, OF
MAINE, Bucksport, Me. Incorporated, February, 1880.
Capital, \$500,000; Shares \$2.00 each.
Office, 40 Water St., Room 46, Boston, Mass.
President, Hon. William Wirt Warren, Boston; Treasurer, Oscar E. Doolittle, Boston; Secretary, R. B. Hinchman, Bucksport; Directors—Hon. William Wirt Warren, Boston; Hon. Samuel B. Noyes, Boston; George F. Ropes, Salem; William Read, Boston; Samuel J. Noble, Boston; Dr. S. E. Thayer, Boston; George A. Morse, Boston.

JOHN ROBERTS, Mine Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 Shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, S. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, Dr. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.

CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.

HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Wm. H. Darling, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Hucksins, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING COMPANY,
Acton, Me. Incorporated, Jan., 1879.
Capital, \$500,000; Shares, \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors—I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.

W. A. GOULD, Supt.

DEERING-ACTON SILVER MINING COMPY,
Acton, Me.
Capital, \$500,000 in 100,000 shares; par value, \$5. Offices, 93 Exchange Street, Portland, Me., and Sears building, Boston.
President, J. M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors—Elphaleet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.

EASTERN STAR SILVER MINING COMPANY,
Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, A. F. Smith, Bangor; Directors—A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Charles H. Dennett.

EAST BLUEHILL GOLD & SILVER MINING CO.
East Blue Hill, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M.D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.

GEO. W. COLLINS, Supt.

EDGEMOGGIN SILVER MINING COMPANY,
Sedgwick, Me. Incorporated, June, 1877; re-organized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors—Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. A. J. W. REVERE, Supt.
Office of Company, 22 Exchange St., Portland, Me. Boston office, No. 7 Exchange Place. W. H. McCINTOCK & Co., Transfer Agents.

ELDORADO SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fisk, Portland; Secretary, N. S. Gardiner, Portland; Directors—J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fisk, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EAST SURRY MINING COMPANY,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors—Chas. H. Varnham and George W. Hutchings, East Surry; Naham Hinchley, Surry; Lewis Friend and Calvin G. Peck, Ellsworth; Supt., Isaac H. Grant, East Surry.

FOREST CITY SILVER MINING COMPANY,
Acton, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emory S. Redlon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Barker, James E. Sturgis, Benjamin Barnes, Jr.

GARDNER FLOYD, Supt.

FORT KNOX SILVER MINING COMPANY,
Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.

A. R. FELLOWS, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Lattin, Jeremiah Wooster.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill; Secretary, Henry I. Billings, Blue Hill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, E. M. Hersey, I. S. Emery.

FARNHAM SILVER MINING COMPANY,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors—E. H. Nealley, G. F. Harriman, E. C. Arey, F. F. Favour, John Atwood of Boston.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.

W. I. VALENTINE, Supt.

GARDNER MOUNTAIN COPPER MINING CO,
Littleton, N. H. Incorporated under laws of Maine, Dec, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 5000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$40,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer,
Geo. W. Fiske, Ellsworth; Secretary, E. K. Hop-
kins, Ellsworth; Directors—Henry M. Hall, Geo.
W. Fiske, E. K. Hopkins, Robert Mullan, E. P.
Reed.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable;
Treasury Fund, 20,000 Shares.
President, O. H. Perry, of Boston; Treasurer,
Geo. A. Gibson of Boston; Secretary, E. G. John-
son of Sullivan; Directors—O. H. Perry, G. A. Gib-
son, E. G. Johnston and Geo. W. Pettengill.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J.
Morrison; Secretary, Geo. W. Fiske; Directors—
Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stur-
art, J. T. Crippen, S. J. Morrison.

HARTINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-
President, Ezra L. Sterns, Bangor; Treasurer, C.
P. Wiggins, Bangor; Secretary, E. M. Hersey, Ban-
gor. Directors—John S. Jenness, James Little-
field, James Tobin, James A. Davis, Hon. H. C.
Martin. WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-
President, John S. Jenness, Bangor; Treasurer, W.
J. Webb, Bangor; Secretary, W. Lee Johnson, Ban-
gor; Directors—Wm. H. Darling, John S. Jenness,
Hiram B. Williams, W. Oscar Arnold, Jacob Stern,
Manley G. Trask, Geo. W. Sweetser.

LEBANON ACTON SILVER MINING COMPY,
Acton, York County, Me. Incorporated, Feb.,
1880.
Office—29 Exchange, corner Milk Street, Port-
land, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1
each; Stock unassessable. 100,000 shares in the
Treasury.
President, Hugh J. Chisholm; Treasurer, A. P.
Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund
50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer,
Porter Nealey, Bangor; Secretary, E. C. Pearson,
Bangor; Directors—Wm. T. Pearson, Porter Nealey,
Edgar C. Pearson, Emery G. Ingalls, of Bangor;
Alvin Roddick, of Boston; Arthur S. Newman,
of Portland. Roderice H. Candag, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoline, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treas-
urer, Dr. L. W. Hodgkins, Ellsworth; Directors—
H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr.
K. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treas-
urer, Thomas Dalby, Boston. Secretary, Sidney
E. Horne, Sullivan. Directors—L. F. Morse,
Sidney E. Horne, James R. Grose, Thomas Dalby,
Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office,
4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Sec-
retary, W. O. Arnold of Bangor, Me.; Treasurer,
G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value
\$5 each. Unassessable. J. SHOENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treas-
urer, I. S. Johnson, Bangor; Secretary, A. W.
Ashman, Ellsworth; Directors—Henry Whiting,
I. S. Johnson, S. N. McFarland, F. A. McLaughlin,
A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAllister, Bucksport; Treas-
urer, A. C. Swazey, Bucksport; Secretary, F. H.
Moses, Bucksport; Directors—G. W. McAllister,
J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H.
Moses, E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessa-
ble; Treasury Fund, 25,000 shares.
Geo. F. Calef, President, of Saco; Ferguson
Haines, Treasurer, of Biddeford; Frank Foss, Sec-
retary, of Saco; Directors—Geo. F. Calef, Alfred
Patterson, Dr. J. E. L. Kimball, of Saco, Charles M.
Moses, Edwin Stone, Frank A. Sawyer, of Bidde-
ford. JERE. G. SHAW, Supt.

MINERAL HILL MINING COMPANY.
Organized under the laws of the State of
Maine. Capital Stock \$500,000; Number of Shares
100,000; Par Value \$5; Full paid and forever un-
assessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer,
A. E. Fernald, Winterport; Secretary, Walter Hal-
ley, Winterport; Directors—D. H. Smith, Winter-
port; E. C. Arey, Winterport; John Pierce, Frank-
fort; W. G. Frye, Belfast; John Atwood, Boston;
Walter Halley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treas-
ury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President,
J. W. Milliken, Bangor; Treasurer, W. P. Hub-
bard, Bangor; Secretary, E. H. Dakin, Bangor;
Directors—J. S. Ricker, J. W. Milliken, W. H. Dar-
ling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Pow-
ler. WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treas-
ury Fund 50,000 Shares.
President, Weston F. Milliken; Treasurer, James
L. Rackliff, Secretary, Chas. D. Clark; Directors,
W. F. Milliken, Chas. McCarthy Jr., John A. Strout,
F. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated,
Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury
Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treas-
urer, L. B. Wyman, Ellsworth; Secretary, J. B.
Redman, Ellsworth; Directors—E. H. Greeley, J.
W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated,
January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and
G, 3d floor.
President, L. Foster Morse, Boston; Secretary,
Samuel Angier, Blue Hill; Treasurer, Jno. H.
Faxton, Jr., Boston; Directors—L. Foster Morse,
Boston; Samuel Angier, Blue Hill, Me.; Geo. G.
Barker, Salem, Mass.; Thomas H. Guernsey, Bos-
ton; Joshua S. Ducklee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-
President, J. S. Ricker, Bangor. Treasurer, Chas.
Hight, Bangor. Secretary, W. J. Patten, Bangor.
Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-
sander Palmer, J. W. Thompson, George F. Dil-
lingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury
Fund, 40,000 Shares.
President, H. Whiting, Ellsworth. Treasurer,
A. A. Bartlett, Ellsworth. Secretary, George A.
Parcher, Ellsworth. Directors—Henry Whiting,
Marcus Mullan, James F. Davis, Guy Mullan, A.
A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund
\$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm.
E. Brown, Bangor; Secretary, Wm. L. Johnson,
Bangor; Directors—F. O. Beal, W. J. Webb, Geo.
W. Knight, Ezra L. Sterns, Hon. F. M. Laughton,
A. H. Thaxter, B. B. Thatcher, Bangor; A. H.
Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 28,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and
Secretary, Wm. P. Hubbard, Bangor. Directors—
J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M.
Laughton, Bangor; Melvin Preble, Bangor; Geo.
Brooks, Orrington; W. H. Darling, Blue Hill;
Thomas White, Bangor.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
on the Sullivan Lode, Sullivan, Me. Incor-
porated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassess-
able; Treasury Fund, 40,000 Shares.
President, Geo. B. Brown, Boston; Secretary, W.
O. Arnold, Bangor; Treasurer, F. R. Nourse, Bos-
ton; Directors, Geo. B. Brown, Joseph G. Russell,
Wm. D. Lewis, Lyman B. Greenleaf, Geo. G. Rich-
ards.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer,
J. S. Ricker, Bangor; Secretary, C. F. Bragg, Ban-
gor; Directors—W. P. Hubbard, J. S. Ricker, C. F.
Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H.
M. Bartlett.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incor-
porated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth;
Treasurer, C. C. Burrill, Ellsworth; Secretary, J.
B. Redman, Ellsworth; Directors, Hon. Eugene
Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund
40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and
Treasurer, G. S. Bean, Bangor; Directors—
James Adams, E. J. Swan, M. G. Trask, C. C. Bur-
rill, E. C. Nichols.
E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund
40,000 shares.
President, Capt. J. H. Hill; Vice-President,
James Emery; Treasurer, A. H. Genn; Secretary,
C. J. Cobb, all of Bucksport; Directors—J. H.
Hill, James Emery, Richard Snow, Howard Swa-
zey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 50,000 Shares.
President—David Bugbee, Bangor. Vice-Presi-
dent, Frank P. Wood, Bangor. Treasurer, John
S. Jenness, Bangor. Secretary, John R. Mason,
Bangor. Directors—David Bugbee, Frank P.
Wood, Charles Duff, J. S. Ricker, Samuel Sterns,
James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office
No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secre-
tary, W. O. Arnold, of Bangor, Me.; Treasurer,
Geo. E. Harrington, of Salem, Mass.; Directors, B.
S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E.
Harrington, W. E. Connor, L. Foster Morse, C. P.
Weston. Capital stock \$500,000—50,000 shares, par
value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secre-
tary and Treasurer, Harry C. Bliss, Bangor; Di-
rectors—Chas. I. Collamore, Alonzo Packard, Col-
lin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WHITE STAR SILVER & COPPER MINING CO.
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Hon. H. C. Martin, Brunswick; Vice-
President, J. W. Milliken, Bangor; Treasurer, W.
P. Hubbard, Bangor; Secretary, F. H. Clergue,
Bangor; Directors—H. C. Martin, J. W. Milliken,
James Adams, W. H. Darling, Parris G. Merrill, F.
H. Clergue.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me.
Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 32,000 Shares.
President, Joseph H. West, Franklin; Treas-
urer, H. B. Saunders, Ellsworth; Secretary, E. F.
Robinson, Ellsworth; Directors—Joseph H. West,
H. B. Saunders, John D. Hopkins, J. F. Whitcomb,
E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-Presi-
dent, Charles Hamlin, Bangor; Treasurer, John
R. Mason, Bangor; Secretary, W. F. Seavey, Ban-
gor; Directors—John S. Jenness, Charles Hamlin,
Samuel R. Prentiss, Wm. D. Swazey, William H.
Darling, James W. Davis.

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BOSTON ACTON SILVER MINING CO.

There will be a special meeting of the stockholders of the Boston Acton Silver Mining Co., at the office of Rollins & Adams, No. 22 Exchange St., Portland, Me., on Friday April 16, 1880, at 4 o'clock, P. M., to see if the company will authorize the Directors to sell the property of the company to the ACTON CONSOLIDATED MINING AND MILLING CO., or to make other arrangements for the practical consolidation or merger of this company in said Acton Consolidated Mining and Milling Co. Per order of the Directors.

STERLING DOW, Secretary.

ACTON SILVER MINING CO.

There will be a special meeting of the stockholders of the Acton Silver Mining Co., at the office of Rollins & Adams, No. 22 Exchange St., Portland, Me., at 10 o'clock, A. M., on Friday, April 16, 1880, to see if the company will authorize the Directors to sell the property of the company to the ACTON CONSOLIDATED MINING AND MILLING CO., or to make other arrangements for the practical consolidation or merger of this company in said Acton Consolidated Mining and Milling Co. Per order of Directors.

JOHN S. MORRIS, Secretary.

PORTLAND ACTON SILVER MINING CO

There will be a special meeting of the stockholders of the Portland Acton Silver Mining Co., at the office of Rollins & Adams, 22 Exchange St., Portland, Me., on Friday, April 16, 1880, at 2 o'clock, P. M., to see if the company will authorize the Directors to sell the property of the company to the ACTON CONSOLIDATED MINING AND MILLING CO., or to make other arrangements for the practical consolidation or merger of this company in said Acton Consolidated Mining and Milling Co. Per order of Directors.

CHARLES D. CLARK, Secretary.

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BUCKSPORT AND BANGOR RAILROAD.

Stages Connect Daily at Bucksport

—FOR—

	Distance from Bucksport.	Tickets from Bangor.	
Penobscot,	15 miles	\$1.50	Tickets on sale
Castine,	17 "	1.50	at B. & B. R. R.
Bluehill,	18 "	1.50	office, Bangor,
Brooksville,	20 "	1.50	via A. P. Currier's,
Sedgwick,	26 "	2.00	Hill, Goo-
Sargentville,	28 "	2.00	gin & Co.'s and
			E. R. Bowden's
			Stage lines

First Class Hotel and Livery Stables at Bucksport.

Shortest and Cheapest Route.

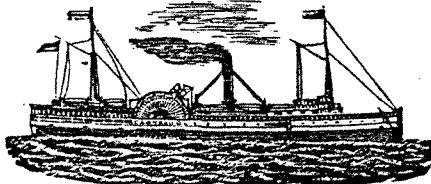
mr24 L.J.L. LINCOLN, Supt.

The Sanford Steamship Co.

BETWEEN BANGOR AND BOSTON,

Touching at Winterport, Bucksport, Searsport, Belfast, Camden and Rockland.

Three Trips per Week



Commencing Monday, March 29.

Steamer CAMBRIDGE, | Steamer KATAHDIN
Capt. Otis Ingraham, | Capt. W. R. Roix.

will make three trips per week.

Leaving Lincoln's Wharf, Boston,

alternately every MONDAY, WEDNESDAY and FRIDAY at 5:00 P. M.

Leaving Bucksport alternately every MONDAY, WEDNESDAY and FRIDAY at 12:30 M.

Leaving Winterport same days at 10:00 A. M. A train leaves the Bucksport & Bangor R. R. Depot in Bangor at 10 A. M., connecting with the steamer at Bucksport.

A special train will take passengers to Bangor should the steamer not arrive at Bucksport in season for the regular train.

Tickets from Bangor to river landings and Boston obtained at ticket office in the depot.

Passengers and freight of this line forwarded over the Bucksport & Bangor R. R. free of expense.

Passengers by this line avoid midnight changes, and the expense and inconvenience of arriving in Boston late at night.

Tickets sold on each Steamer for Lowell, New York, Philadelphia, Baltimore, Washington, and all Western and Southwestern Points, and Baggage checked through.

JAS. LITTLEFIELD,
Gen'l Pass'r and Trans. Ag't, Bangor.
Bangor, March 24th, 1880. d&w

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this line will leave India Wharf, Boston, and Franklin Wharf, Portland, every evening (Sundays excepted) at 7 o'clock.

CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West.

Tourists will find this one of the finest OCEAN TRIPS on the New England coast.

WM. WEEKS, J. B. COYLE, JR.,
Agent, Boston. Gen. Ag't, Portland.

Wanted! Wanted! Wanted!

By a suitable and trustworthy servant, a situation in city, town or country; can furnish the most satisfactory references from the best families in America. I am willing to give gratuitous service for a few days to those who intend to employ. My qualifications as a family servant are—

First—I am of age and have a powerful arm.

Second—I am of good form, well built, and have an iron constitution.

Third—I need no doctor and never have fits.

Fourth—I am a good worker and willing at all times.

Fifth—I require no rest, as I never tire.

Sixth—All the food I require is a few drops of oil each day, which keeps me exceedingly nimble.

Seventh—I have not a single vice or bad habit.

Eighth—I never ask for a holiday.

Ninth—I always give satisfaction, no matter how fast I am compelled to work.

Tenth—I have a simple yet effective device for doing all kinds of sewing.

Eleventh—I have no country cousins or other company.

Twelfth—I have no particular religion, but am willing to conform to the belief of my employer.

Thirteenth—I can easily do the work of the largest family.

Fourteenth—I am a thorough-bred American born, and reared in the City of Philadelphia and State of Pennsylvania.

Fifteenth—Having been employed by families of all nationalities, I can understand one language as well as another.

Sixteenth—I am a friend to every one, and no family should be without me.

My name is American, and I am a SEWING MACHINE. I am to be found at the

SEWING MACHINE DEPOT, 74 MAIN ST., BANGOR.

Or will be sent to any parties desiring to test my qualities, by leaving orders with R. G. ROLLINS' Manager, or his Corps of Agents.

Leighton, Davenport & Co.

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AND DEALERS IN

Force Pumps, Bath Tubs, Water Closets,

IRON AND LEAD PIPE,

Belting, Rubber Hose, &c., &c.

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Bangor, Me.

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Our Stock the largest and best assorted. The quality of our goods cannot be surpassed. Having made special arrangements with some of the leading houses in the country, we are now able to show the BEST LIGHTED STORE IN THE STATE.

THE FINEST AND MOST FASHIONABLE STOCK

—OF—

Children's, Boys' and Men's Clothing

which long experience and fine art can only produce.

We most respectfully invite the public to inspect this magnificent stock, with the assurance that although our Clothing is made and trimmed in a very superior style, our prices, as usual, will be found the very lowest.

CHILDREN'S AND BOYS' FINE SUITS a specialty. SPRING OVERCOATS in all desirable styles. The best variety of white and fancy Shirts, Hats and Neck-wear, at

J. WATERMAN'S BOSS CLOTHING HOUSE,

Sign of dressed man.

75 and 77 Exchange Street.

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All orders left at the Stable Office.

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The stage leaves Bucksport daily, Sundays excepted, at 1 P. M. for Blue Hill and Sedgwick.

Returning, leaves Blue Hill, daily, Sundays excepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to Blue Hill, and by the Blue Hill driver through to Bangor.

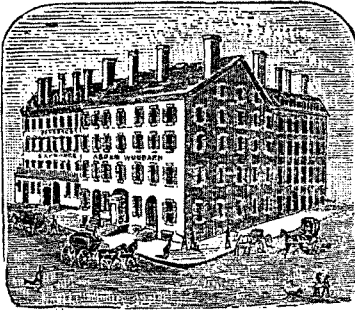
A. P. CURRIER & CO., Proprietors.

BANGOR AND ELLSWORTH STAGE LINE.

Stages leave Bangor for Ellsworth at 8 o'clock A. M. and 3 P. M., or on arrival of Western trains from Portland and Boston, connecting at Ellsworth with stages for Bar Harbor, Sullivan and surrounding towns. Good covered coaches run over this line between Bangor and Ellsworth. Extra teams furnished at all times, at reasonable rates, at their stables in Bangor and Ellsworth.

JOHN M. HALE & CO.
Ellsworth, March 2, 1880.

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Smith & Thayer, Proprietors.

Free Coaches to and from all Boats and Steamers.

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O. M. SHAW & SON.....PROPRIETORS.
This splendid Hotel is finished and furnished with every regard to comfort and luxury. The parlors and bedrooms are large, airy and well ventilated, and well arranged for pleasure parties and commercial travelers. This is the only hotel east of Boston that has an elevator, the weary traveler's friend. Rates \$2.50 and \$3.00.

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STOP AT

"THE AMERICAN HOUSE,"

Ellsworth, Maine.

A. I. SAUNDERS.....PROPRIETOR.

PREBLE HOUSE.

JOHN LINDSEY.....PROPRIETOR.

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(Formerly of Fabryan House, White Mountains, N. H.) The House has been thoroughly rented with every regard for comfort, and the aim is to make it first class in all its appointments. Terms, \$2 and \$2.50 per day.

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Should stop at the

"Copper and Gold Exchange"

Blue Hill, Maine.

HARRY E. FISKE.....PROPRIETOR.

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FOR 1880.

Will contain as usual, the latest news,—local, State and telegraphic.

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Giving Telegraphic, Local, State, Shipping and Market News, Mining Notes, &c., will be furnished at \$8 a year, or \$7 in advance, free of postage.

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Published every Tuesday, Thursday and Saturday, will be furnished at \$3.50 per year, or \$3 in advance.

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Is the largest paper in the State, and contains a full summary of the Telegraphic, State, and General News from the DAILY ARGUS. It will be furnished for one year for \$2, or \$1.50 in advance, free of postage.

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Miners' Hats, Caps, &c., &c.

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EVERYTHING PERTAINING to the CLOTHING of the MINER

SO THAT HE CAN WORK WITH

Safety and Convenience at the Bottom of the Deepest Shaft.

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Miners' and Seamen's Outfits

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WHOLESALE and RETAIL.

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Send your orders to

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Your attention is called to my

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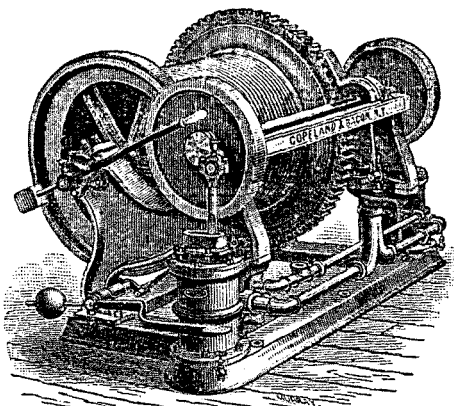
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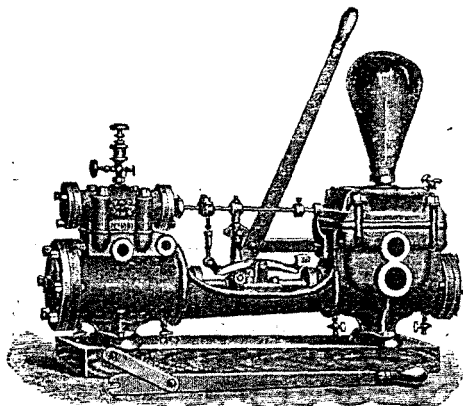
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of any depth; also for working in any position where the
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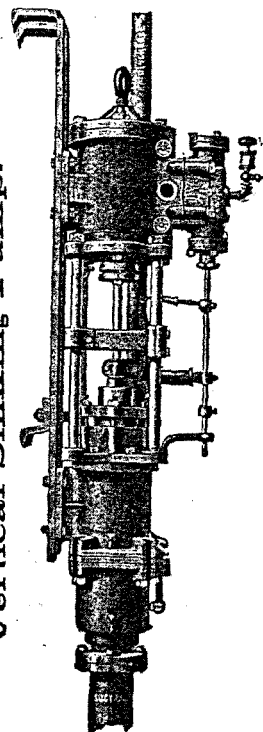
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Maine Mining Journal.

DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

[Entered as second-class mail matter.]

Vol. I. No. 15.

BANGOR, MAINE, APRIL 9, 1880.

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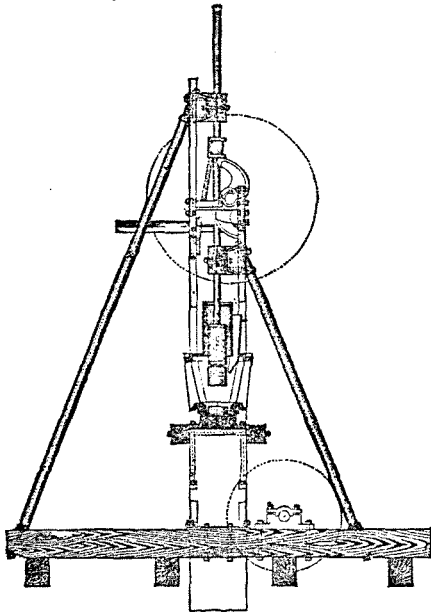
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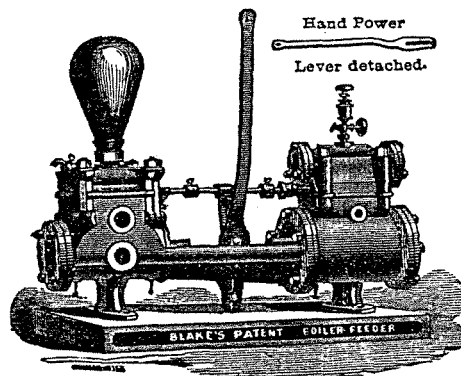
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Silver Mining Company.

The Mining Property known as the Gould
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Monson and J. W. Gould of Blue Hill.

A shaft has been worked to the depth of seven
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in Bangor, the Company voted to form a joint
stock company under the laws of the State of
Maine, said Company to have a capital of \$500,000,
to be divided into 100,000 shares of a par value of
\$5.00 each, which are to be forever unassessable.
Said Company agrees to put into the Treasury so
formed 23,333 shares of the capital stock, and three
thousand dollars (\$3,000) in cash; and of the re-
mainder 43,000 shares are for sale at 40 cts. per
share.

ISAIAH S. EMERY,

WM. H. DARLING,

Trustees.

February 26, 1890.

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AND OFFICE OF

COL. W. H. DARLING,

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PUBLISHED EVERY FRIDAY AT

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W. F. BLANDING, } EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 15 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

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BANGOR, FRIDAY, APRIL 9, 1880.

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MAINE MINING JOURNAL,

28 West Market Square,

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MISLEADING STATEMENTS.

We are told by modern geologists that extensive ore-channels or fissure-veins have a uniform polar trend. In other words, the lines of cleavage or fracture have a general direction of nearly north and south, and the true fissures extend in unbroken, straight lines for long distances, unless disturbed or thrown out of their course by eruptive trap-dykes.

Accepting this theory as correct, we are forced to the conclusion that the State of Maine is far richer in trap-dykes than any other land upon the face of the globe. In no other country are ore-veins so accommodating as to twist themselves around and take in every mining property within a radius of 20 miles of a given locality. If any one is so sceptical as to doubt that the mineral lodes of Maine are capable of doing this, let him take a map of Hancock county and locate the mining properties in the towns of Franklin, Hancock and Ellsworth, which are said to be "on the Sullivan lode;" let him examine a map of the mining district of Blue Hill and note the mines which "expect to cut the Douglass vein."

Seriously, it is time this matter received some attention, and the public must learn to receive *cum grano salis* all representations of companies whose sole claims to public confidence are based upon the close proximity of their so called mine to some prosperous neighbor. It should be borne in mind that the statement that a property is located upon the same lode as another property in the vicinity, cannot truthfully be made until the veins have been traced

the entire intervening distance, and actually exposed at the point in question.

The immediate cause of these remarks is the following item, which appeared in the *Boston Daily Advertiser* and has since been copied into the *Portland Argus* and other papers:

Twelve acres of the Knights farm, on the northwest point of Deer Isle, Maine, has been prospected, and found to carry the Deer Isle silver vein six feet wide for over 87 rods, and runs off from the shore 35 rods. The property has been purchased and is to be worked by the Portland Deer Isle Mining Company.

The "Deer Isle silver vein" has not been traced beyond the limits of the property of the Deer Isle Silver Mining Co., and as we have before stated, the true bearing of the vein has not been determined and the course which it takes is as yet uncertain; consequently the incorrectness of the above statement is manifest. It does not seem just the fair thing for *any* mine which has succeeded in making a fair showing and acquired the confidence of capitalists to be compelled to bolster up other properties of doubtful or even prospective value.

Our readers will recall mention being made in these columns some time since, of the Ellsworth Silver Mining Co., organized with a million dollar capital under the State laws of Connecticut. A correspondent of the *MINING JOURNAL* has recently visited the mine (?) and reports that the vein which is represented in the prospectus issued by the company to be of a uniform average richness of \$51 to the ton, was not discoverable; but a micaceous slaty matter with small quartz-stringers running through it, like a great part of the formation of this region, composed their entire shaft-matter. The manner in which this property is being put upon the market makes it a duty for all honest miners to look into and expose it. If it is not a fraud it bears a striking resemblance to one.

We publish this week Prof. Stewart's flattering Report on the Lawrence Mine. It is exceedingly gratifying to the people of Bangor to have the assurance from so high an authority that the Hampden lode is destined to play so important a part in the future wealth and prosperity of the State. The officers in the several Hampden companies are nearly all resident in this vicinity and the stock is principally held here. The successful working of these mines can but infuse new life into every branch of business and render immense assistance in reviving the drooping industries of this section.

The following characteristic letter was recently received by a gentleman in this city:

BLUE HILL, March 16, 1880.

Dear Friend—I send you by mail my report upon your mining property and also Mr. Hill's certificate. You will probably observe that the report and the certificate of assay are a little thin. It can't be helped. Facts are stubborn things and we can't extract blood from turnips. Hoping to meet you soon, I remain,

Yours sincerely,

W. F. STEWART.

By an unaccountable blunder which must be charged (to quote the editor of the *Engineering and Mining Journal*)

o the innate perversity of things, we last week spoke of Gov. Tabor and ex-Senator Chaffee of *Nevada* instead of Colorado. Very few, however, would be misled by the error, as their names have been before the public quite prominently of late.

Personals.

N. P. DOE, of this city, will open his assay office about April 20.

WM. D. LEWIS, Esq., of Boston, has been in Bangor the past week.

MR. W. A. PEARSON, of Virginia City, Nev., arrived in this city last night.

MR. E. R. HILLS, the well known assayer, has left Blue Hill and is now at the office of Prof. Sharples in Boston.

MR. ISAIAH S. EMERY, of the Maine Mining Exchange, and MR. THOMAS CAHILL, of Nevada, have recently visited Blue Hill.

Senator JAMES G. BLAINE is reported to have a large amount of money in mining stocks in New York.—[*Daily Mining News*.

We received yesterday a pleasant call from Mr. H. C. PEASE of the *Economist*. MR. PEASE visits this section in the interest of his paper and to make the acquaintance of mining men.

Women's Bullion Club.

The Women's Bullion Club, but recently organized in this city, furnishes additional evidence of the great interest that is being manifested by all classes in mines and mining enterprises. The headquarters of the new club is at No. 14 East Fourteenth Street—the rooms of the ladies' mining agency—which are spacious and elegantly fitted up. The article of incorporation explains that the object of the formation of the club is to interest and educate women in the practical work of mining, and thereby to open for them a broader and more remunerative field of legitimate industry. To accomplish this work the club propose to open a reading room, where most of the current literature of the day shall be accessible to its members, and to institute lectures and discussions on subjects bearing directly upon the mineral interests of the country; also to furnish facilities for learning all the practical details of carrying forward mining enterprises according to the most approved methods and latest developments of scientific researches; to bring within reach of women favorable opportunities for negotiations in mining stocks or properties on a basis of intelligent operations rather than as now, blindly dependent upon the representations of others. Finally, to keep always on record, for the benefit of members only, an account of the latest discoveries, developments and opportunities now afforded for profitable investments, or negotiations of either purchase or sale. The officers of the club consist of a president, five vice-presidents, a corresponding and recording secretary, treasurer, and a board of seven directors. Among the names of the incorporators are Harriet A. Keller, Etta S. Farrar, Kate Stanton and Hope Whipple. Thirty ladies are already enrolled as members, and the indications are that the association will soon become a strong and influential one. At the present time there are three mining bureaus in this city controlled exclusively by women and established for the purpose of enabling women to invest in mining properties. The Ladies' Mining Association, at No. 14 East Fourteenth street, seems so far to take the lead. The office is supplied with a stock exchange indicator, and is in telegraphic communication with the stock and mining exchanges.—[*N. Y.*

The Miner's Wooing.

Oh! listen, love, I come to-night to "prospect" some and see
If that rich mine, thy own pure heart, is all unclaimed and free;
If so I'll seek in Cupid's court to be the "patentee."
In fact, I want a "title," love, from litigation free.
Oh! say you'll with a miner rove—a "bonanza" be for me;
I'll be so rich with thee.

Then come, my love, and be my Pard, all "unadversed" my own,
And o'er the mountain side of life, in comp'ny we will roam;
We'll "survey," too, and stake a "claim," and then "locate" our home;
And then we'll build a cabin there, to fill with "tons" of love;
And a three-legged stool and chair we'll have, a table, bunk and stove.
Oh! "Assure-vein!" Oh, human love!

Yes come, my love, and cook my "grub," I've batched so long, you see,
I've contracted dyspepsia, some; and want a boom to be
That will pure mineral prove to you and "pan out" well for me.
I'll pick and shovel for you, dear; I'll work both night and day;
If you'll but say you'll engineer, I'll know that I've struck pay.
I'll be a "monied king" for aye.

I know, my love, that I have been a bad, "hard lot," that's true;
I've "stood the drinks" in beer saloons and gambled some, there, too;
I've sworn and broke God's day of rest, as careless miners do,
But I've resolved to run a chain 'twixt future and my past—
To climb a trail toward timber line, where contracts good will last,
If bygones o'er the "dump" you'll cast.

'Tis so, my love, I've borne the stamp of a tough, wild "cuss," they say:
But with your help from "shafts" of sin I hope to "drift" away.
With "sand" and love as watchwords then, I'll strive for better "pay,"
I'll "timber up" my "caved-in" past and then begin anew
To leave behind a life that's fast and live for only you—
My "carbonate" good and true.

Remember, love, I've been without (while I have gone astray)
Two "expert" hands to hold me back, a voice to bid me stay.
A loving heart to point to me the smoothest, sunniest way.
Oh! now, my gem, if you but can return the love I've given,
Don't "sit down" on my dearest plan but make my earth a heaven,
My dough the lightest leaven.

And some day, love, when we have passed the last term of our "lease,"
That summit of the Range of life, where throbbing hearts shall cease,
May we be fitted then to "strike" that "crevice" of rich peace
That lies 'twixt "walls" of radiant light, up there in "camps" on high,
Where tempters cast no sickening blight, not a bunko-steerer nigh,
My love, beyond the sky.

And then, my love, if we do gain that "district" bright up there,
If we should reach the "pearly gates" and find them left ajar—
Ajar for you and "miner Joe," what a plaguey lucky pair
We'd be on high among the "fold" that we have read about
Who walk with joy the streets of gold, to live, Oh! glorious thought,
Where "titles" won't "play out."—[*Colorado Miner*.

Dips, Spurs and Angles.

One of the Colorado mines that is said to pay well is the Penny Poker, located in Shirt Tail Canon, Dead Mule Gulch.—[*Boston Post*.

The most infusible of all known metals is iridium, which, it has just been determined by a French investigator, melts only when the intense heat of 3,510 degrees Fahrenheit is reached.

The fifteen puzzle has reached Virginia City, but the Comstockers say that as a puzzle it does not begin to compare with the problem of how to produce "more mud" for the broker on a falling market.

The mining craze has reached the grocers. E. G. Storer exhibits two cheese-box covers full of rock, in front of his store, from the Pettengill Corner drift, which will assay as high as 15 cents a ton for macadamizing purposes.—[*Kennebec Journal*.

In a few weeks Mr. Edison expects to start for Butte county, Cal., to erect some furnaces by which his new process of utilizing the tailings of ore cast off by miners may be put to work at once. It was learned recently that the name of the organization is the Edison Mining Company. They

will have a capital of \$500,000, \$100,000 of which has already been paid in. Mr. Edison will be accompanied by several professional mining experts.

"Spence's metal" is a new metallic compound which will probably prove of much utility. Chemically considered, the new substance is one of the class known as thiastrates, or sulphur sulphides, and specimens lately exhibited in London consisted of an ore of iron pyrites containing both lead and zinc sulphides. It possesses the valuable properties of melting at low heat, expanding in cooling, great tenacity, and being practically unaffected by acids, water or atmospheric exposure. It has the very important advantage of cheapness, and is said to be especially adapted to a great variety of purposes. As a substitute for type and bronze metals much is expected of it.

In a recent conversation with Mr. W. B. Welles, of New York, I asked that gentleman's opinion of mining experts, as they are known to miners. I can give you my opinion in no better way, he replied, than relating an incident in the suit of the famous Emma mine which took place in Utah, and in which Schenck, of Ohio, was seemingly mixed up. During the trial, one Tom Bates, a man known throughout the mining regions of the West, was on the witness stand, and one of the lawyers, in cross-examining, asked:

"You are a mining expert, Mr. Bates?"

"No sir, I am not," was the answer.

"Did I not understand you to say that you had visited and inspected most of the known mines in the West?"

"You did, sir."

"And have you not made mining a study for years?"

"I have, sir."

"Well, then, please state to the Court your definition of a mining expert."

"Well, sir, a mining expert is a man who wears eye glasses, parts his hair in the middle, has graduated at Freiberg, and speaks very bad English."

Then there was a profound silence in court and the captain sat down.—[Letter to Cincinnati Enquirer.]

A man now a prominent merchant of Virginia City won at poker an undeveloped gravel claim near Nevada City, worth in the neighborhood of two hundred dollars. His friends had the laugh on him for several days regarding his "investment," and asked him what proportion of the taxes he would pay in case they accepted the property as a gift. He finally got mad at their incessant gulling, and told them they would see he was not such a fool as they took him for before he got through with that mine. He then wrote to some capitalist acquaintances that he had a claim worth a fabulous sum, which he would sell for \$2,000, being hard pressed financially. The bank was next visited, \$500 worth of gold dust and nuggets bought, and the claim thoroughly "salted." When the purchasers arrived they prospected the ground a little, and the panning out was attended by big clean-ups. They paid the \$2,000 the same day, and got possession of the ground. Work was at once begun, and they took out \$8,000 inside of three weeks. The "salter" was so taken aback that he did not smile for a month, and the parties to whom he confided his shrewdness at the time of its preparation never meet him to this day but they ask

him if he has another gravel mine to sell.—[Nevada (Col.) Transcript.]

Something Every Mining Man Should Have.

We refer to the *Daily Mining News*, published in N. Y. City, which comes to us with its columns crowded with the very latest news from the most prominent mines in the country, and withal so full of instructive and entertaining matter that no one interested in mining can afford to be without it. It is ably edited and has the entire confidence of the mining public. For terms, etc., see our advertising columns.

GEOLOGICAL REPORT

UPON THE PROPERTY OF THE

LAWRENCE MINING COMPANY.

LOCATION OF WORKS:

Town of Hampden, Penobscot County, Maine.

By W. F. Stewart, Geologist.

I am frequently asked why I express, so persistently, an unlimited confidence in the "future permanency of the silver bearing mines of Maine?" As this query involves a question of momentous importance to everybody interested in mining properties, I shall endeavor to answer it before entering upon the historical details of this Report.

The patient investigations of modern scientists have clearly proved that the mineralized veins and ore deposits of the globe have all received their metallic contents from the rocks adjacent to the lodes. In other words, it is now affirmed by the ablest physicists of the nineteenth century, that all ore-bearing veins have been mineralized by the combined energies of heat, electricity and magnetism, operating upon and through hot chemical solutions. Were it not for this modern philosophy of mineral deposition in the deep chasms of the globe, the sciences of geology and mineralogy would be of little use to the practical miner. By the aid of science however, we are fully assured that whatever elements now exist in veins or lodes, originally existed in the atomic condition in the surrounding rocks, and that they were leached out and precipitated in their present matrices by the combined chemical agencies just referred to. This knowledge of electrolysis, and of metallic aggregation in ore-channels, is the chief stock in trade of the practical geologist and mineralogist. Geology reveals to him the structural condition of the earth's solids; the wonderful combination of mineral elements; the inscrutable laws of crystallization, and the mysterious processes of metamorphism. Mineralogy involves all the known facts of chemical affinities and of electro-magnetic forces. In brief, the practical geologist has no method of determining the probable value and permanency of an undeveloped ore-channel except by a thorough knowledge of the character and conditions of the environing rocks. Experience has long since proved that permanent veins of the precious metals rarely exist except in the profound foldings and deep fractures of crystalline strata. Veins containing the royal metals sometimes traverse plutonic, and even eruptive rocks; but such deposits are usually superficial "gash veins" and are therefore unreliable and unprofitable. The same may be said of ore-bodies occurring in unstratified or compact dolomite and gypsum. Such ore-deposits are usually mere beds and chambers of mineral which lack profundity of depth and soon become exhausted. The most favorable rocks for deep, permanent and reliable ore-channels, are the highly crystalline metamorphic strata of the azoic series. The vast Archæan beds of tilted and corrugated sedimentary strata which form the eastern half of Maine, are exceptionally favorable for profound and fertile ore deposits. This expansive field of Laurentian and Huronian

rocks consists of alternating bands of clay-slate, conglomerate,artzite, chloritic slates, talcose slate, and argilo-mica schists. In fact, the entire region is more or less slaty, or schistose in structure, and as cleavable rocks of this character are easily ruptured along their planes of lamination, it is fair to infer that ore-veins traversing these ancient beds, are vastly profound in vertical depth.

Modern geologists have discovered another very curious fact in relation to the crystalline structure of the earth's solid materials. It is affirmed by the foremost physicists of the age that the crystalline rocks are all arranged in accordance with some mysterious law of terrestrial polarization. In other words, it is held that the entire planet is a gigantic crystal having its lines of cleavage so perfectly defined as to give palpable outlines and feature lines to continents and oceanic islands. According to this accepted theory of continental crystallization, it is maintained that North America presents two distinct systems of cleavage trends, or lines of fracture, resting transversely to each other. To simplify the matter, the cleavable rocks on the western half of the continent, when ruptured by disturbing forces, always fracture or *split* toward the northwest and southeast; while on the eastern side of the Rocky Mountains, the splitting lines are—when undisturbed by local eruptive forces—toward the northeast and southwest; or transverse to the western system. The rock-trends of eastern Maine are in harmony with the great law of continental cleavage and, as a rule, the fracture lines strike toward some point between north and east. Exceptions to this rule frequently occur along the coast line of the State where the strata have been greatly distorted and flexed by eruptive trap dykes; but in the interior counties where such disturbances have rarely occurred, the rock-fractures uniformly strike northeasterly and southwesterly.

Penobscot county seems to have been exceptionally exempt from volcanic disturbances. I have not yet encountered a trap dyke at any point in Penobscot, and, as might be expected, the cleavage trends of the Huronian strata, as well as the enclosed quartz veins—which uniformly rest conformable with the stratification—can be readily traced in direct courses to great distances. As no mortal has ever yet witnessed the final exhaustion of a true fissure silver yielding mine, we have no reliable method of determining the actual depth of such deposits; but the distinguished German scientist, Von Cotta, asserts that "ore veins will certainly be as deep as they are long." If Von Cotta's estimate be trustworthy, then, of a verity, the ore veins of Penobscot are practically inexhaustible, for the great vein upon which the LAWRENCE is located has been fairly traced in a straight course, northeast and southwest, to the distance of five or six miles.

That the ore-bearing quartz veins of Eastern Maine are permanent and reliable, does not admit of a doubt. That they are remarkably fertile in the precious and useful metals, has been already proved beyond a peradventure; but I desire to add that they present, in a marked degree, another encouraging characteristic peculiar to ore veins traversing the laminae of metamorphic strata, namely—a tendency to widen rapidly as they descend into the earth. This widening peculiarity of a true fissure silver lode is hailed as a good augury by practical miners in every land, for the reason that it is considered a sure guarantee of permanency and fertility.

In concluding these prefatory remarks I think I may safely venture the assertion that no other mining region on this planet contains any better formed or more permanent silver-bearing quartz lodes than exist right here in Maine; and that is the reason why I am so persistently expressing my confidence in their ultimate value.

THE LAWRENCE MINE.

The property of the LAWRENCE MINING COMPANY is situated in the town of Hampden, Penobscot County, State of Maine. The mine is located in the midst of a populous agricultural district at a point seven and a half miles west from the city of

Bangor. The mining works are within a stone throw of one of the best carriage roads in the State, and they are easy of access at all seasons of the year. In addition to this, the steamer landing at the village of Hampden, on the Penobscot, is only about three miles distant from the property, so that the facilities for obtaining machinery, lumber, and mining stores, are all that can be desired.

The Company own forty rods—linear measure—of the main ore channel of the famous Hampden quartz lode, and also hold a perfect mineral right to seventy acres of the land upon which the mine is located. As stated on a preceding page, this splendid ore vein has been fairly traced in a straight course northeasterly and southwesterly, to the distance of several miles. There is no observable flexure or fault in it at any point, and it is therefore an easy task to tap it anywhere along the line of its trend, by a slight surface excavation.

GEOLOGY OF THE LAWRENCE.

The great Hampden ore zone rests in the expansive slate bed which stretches through the centre of the State. The slaty materials of this remarkable belt are very variable in their chemical elements and mineral components. The entire bed,—which, according to the report of Prof. C. H. Hitchcock "includes all the settled portions of Piscataquis and most of Penobscot counties,"—is composed of alternating bands and layers of tough silicious slates, highly metamorphic clay slates, epidotic granular quartzites, chlorite slates, talcose slates, soft clay slates, calciferous veins, metalliferous quartz veins, mica slates and argilo-micaceous schists.

In addition to these, Prof. Hitchcock, in his report for 1861, states that "some of the slates about Bangor are so thickly glazed with plumbago as to have been mistaken for coal. They are largely talcose, and are occasionally traversed by dykes."

Owing to the unflexed and unfaulted position of the quartz veins and slate strata in this county, and for the further reason that I have not personally observed any vestiges of eruptive rocks in this part of the country, I was induced to state upon a preceding page of this paper that "Penobscot county seems to have been exceptionally exempt from volcanic disturbances." It may be that the Professor mistook silicious slate for the trap dykes which he observed near Bangor. This mistake could be easily made by any one, for, according to the Professor's own words: "It is difficult to define this rock in scientific terms so that it will be readily distinguished, so we will describe it as it appears. If one will imagine how common clay slate would look when it has been melted, so that no planes of stratification or cleavage remain, and so that the resulting mass is a little heavier and tougher than the original rock, he will know what silicious slate is."

To the expectant mine-owner as well as to the practical geologist, the most important peculiarity of the Archæan beds of Maine, is the tilted and corrugated condition of the strata; for, by the synclinal and anticlinal dip and position of these, we are enabled to form an approximate idea of the depth of the accompanying ore bearing quartz veins. It is estimated that the Huronian beds have a vertical thickness of from 10,000 to 20,000 feet, and as the strata of the entire system have been tilted and bent by an inconceivable lateral force, until they now rest at nearly a perpendicular position, we are justified in concluding that the ore veins which traverse their laminations must extend to prodigious depths.

The immediate lithological surroundings of the LAWRENCE lode are argilo-micaceous schists, capped at intervals by shallow beds of soft clay slates. These tilted schists and slates are traversed by parallel bands of a peculiar species of granular quartzite. These quartzitic bands are widely separated from each other by intervening zones of schists; but as they are precisely alike in texture and structure, as well as in their mineral contents, they doubtless constitute a family or group of mineralized veins. In fact, this peculiar green tinted quartzite usually constitutes the gangue rock of the ore channels in Penob-

scot county. It is locally known as "green rock," and is considered an infallible sign of a fertile ore-channel. The rock owes its yellowish green tinted hue to epidotic and chloritic matter which usually permeates it throughout. While these green-stone bands almost invariably constitute the surface vein-stuff, or gangue matter of the lodes under consideration, it is clearly apparent that they are simply the matrices for true quartz veins. Recent exploitation at numerous and widely separated points in the system, shows that the reticulated veins which permeate the "green rock" at, or near the surface of the lodes are rapidly concentrating in compact masses of ore-bearing quartz; while the "green rock" is disappearing with equal rapidity.

There are good reasons for the belief that these curious quartzitic bands, or metamorphic sand strata, have been formed by comparatively recent infiltration. In other words, they have been precipitated into the fissures long after the formation of the true quartz lodes which underlie them. As just stated, the Hampden "green rock" rapidly fades out and gives place to compact, mineralized quartz, at very superficial depths, and will doubtless finally disappear altogether. This is certainly some indication of its recent precipitation into the chasm. That it contains small seams and reticulated veins of ore-bearing quartz does not militate against this hypothesis. Beds of sand stone in other portions of the world are frequently well charged with rich ores of silver, which were clearly absorbed and deposited from chemical solutions. In Leeds District, Utah Territory, there is a very remarkable bed of sandstone which is permeated throughout with nodules of horn silver. These nodules are not confined by seams or veins of quartz, but they are distributed through the sand stone mass like plums in a pudding. What is still more remarkable about the Leeds deposit is that it contains much petrified wood all of which is so fully saturated with chloride of silver that samples of it have yielded by assay from \$1000 to \$1500 to the ton. These are not fanciful statements, but well authenticated facts, and I have submitted them here merely to show the plausibility of my assumption that the "green rock," or metamorphic sand stones at Hampden may have been of comparatively recent origin. Before giving my own observations in relation to the dip and trend of the LAWRENCE ore vein, I desire to make the following excerpt from the "Geology of Maine, second series, 1861" by Professor C. H. Hitchcock:

"The following observations of the strike and dip of the clay slates in Penobscot county were taken by Mr. Houghton during the past season: Brewer, strike north 50 degrees east, dip 27 degrees northwest. Orrington, north part, strike north 70 degrees east, dip from 50 to 70 degrees northwest. Further south, strike north 80 degrees east, dip 60 degrees northerly. Just north of the village of South Orrington, strike east and west, dip 75 degrees north. Argilo-micaceous slate from West Bangor to Carmel, with the following positions: In Bangor, near J. Eastman's, strike north 55 degrees east, dip 30 degrees northwest. In Hermon, at Craig's house, dip 60 degrees northwest."

This excerpt is a mere fragment of Mr. Houghton's observations, but it will probably serve to show the general position of strata in this region.

At the LAWRENCE shaft, the strike of the vein and enclosing schists, is north 40 degrees east; dip northwest 65 degrees.

PRESENT STATUS OF THE LAWRENCE.

As might be inferred from the foregoing statements, the LAWRENCE mine is simply a section of the great central, or mother lode of the Hampden group of ore channels. At the present juncture the work of exploitation upon the property consists of a capacious shaft, or excavation which has been driven through the lode to the depth of about thirty feet. The excavation is fourteen feet in length by ten and a half in width and fully reveals the lithological and mineralogical conditions of the mine. The surface formation at the shaft is an eight

foot stratum of metamorphic argillite which rests upon a horizontal band or layer of tough clay. The outcrop of the lode penetrates this mass of slate and clay in alternating seams of quartz and bands of "green rock," to the depth of eight feet, at which point it encounters the true ore channel between well defined walls of argilo-micaceous schists. For a distance of ten feet below the point of contact, the quartz veins are narrow, and the "green rock" is the predominating element. Below the last named section there occurs a surprising and most gratifying change. The monopolizing "green rock" has rapidly dwindled to insignificant bands, and the entire chamber—ten and a half feet in width—is palpably assuming the character of a homogeneous lode of splendidly mineralized quartz. Of course there are yet many bands and seams of barren matter traversing the ore-channel, but it is safe to predict that these will speedily disappear as the work progresses.

From the beginning, the LAWRENCE gave proof of being a well mineralized lode. This, however, may be truthfully stated in regard to every opening yet made upon the great Hampden ore-channel, and I am convinced, from what I have already seen, that these properties will shortly astonish the country by their output of precious metals. The minerals which now appear in the LAWRENCE are the following: Argentiferous galena; sulphuret of copper; tetrahedrite; mispickel; iron pyrites; sulphuret of antimony; zinc blende and some gold. The silver bearing lead ore is the predominating mineral although there is still a large percentage of refractory and comparatively worthless substances in the mine. It is gratifying to know, however, that such refractory elements will ultimately disappear at greater depth from the surface, and give place to the more precious metal. It is a fact fully confirmed by the experience of mining men everywhere, that the base metals which usually appear at the out-crop of silver-bearing veins, are always superficial deposits which soon become exhausted as depth is reached below the surface. While it is gratifying to be assured of the ephemeral nature of the base ores, it is far more pleasant to know that silver always increases in volume at profound depths. There is a mining proverb as old as human history, which runs thus: "No mortal ever saw the bottom of a true fissure silver mine."

As yet the mining appliances at the LAWRENCE are of the most primitive character and were only designed for prospecting purposes. I am assured, however that the enterprising gentlemen who own the property "mean business," and that they will immediately place the mine in first-class working condition.

CERTIFICATES OF ASSAY.

The subjoined certificates of assay of ores from the LAWRENCE, recently made by well known New England chemists, may be deemed of value as showing the character of its mineralization. The following are copies of the latest assays of ore of the Lawrence Silver Mining Company:

MAINE STATE ASSAY OFFICE.

Wm. H. Darling, Esq.:—

Dear Sir—I have examined the sample of ore submitted by W. J. Webb & Co., marked LAWRENCE S. M. CO., with the following results: One ton [2000 lbs.] of ore like sample contains:

Gold, 5 pennyweights,	value in U. S. currency, \$ 5 15
Silver, 30 ounces,	" " " 34 20
Lead, 38 per cent.; lbs. per ton 760 "	" " " 45 60

Total value, \$84 95

Very respectfully,

F. S. KNIGHT, Ass't State Assayer.

Portland, February 27th, 1880. No. 2037, Book 30.

No. 2042.

OFFICE OF THE STATE ASSAYER,

114 State St., Room, 9,

Boston, March 5th, 1880.

CERTIFICATE OF ANALYSIS.

To Mr. Samuel Dorr:—

The sample of ore marked LAWRENCE, received from you, submitted to me for examination, contains in 2000 pounds:

Silver.....	38 oz., Troy.
Lead.....	1220 pounds, Av.

Its value is:
 38 oz. Silver. @ \$1.14.....\$ 43 32
 1220 pounds Lead, @ 6c.....73 20
 \$116 52

Respectfully,
 S. P. SHARPLES, State Assayer.

LATEST ASSAY.

To W. J. Webb, Treasurer:

Dear Sir—I have examined the sample of ore taken by myself from the LAWRENCE MINE, with the following results: One ton [2000 lbs.] of ore like sample contains:

Gold, 10 pennyweights.....\$ 10.30
 Silver, 64 ounces @ \$1.14.....72.96
 Lead, 1300 lbs. @ .06.....78.00

Total value.....\$ 161.26

GEO. B. WIGGIN, Assayer.

Bangor, April 8th, 1880.

In closing this veracious history I have only to add that, in my judgment, the LAWRENCE is one of the most encouraging prospects for a permanent and valuable silver mine which I have yet visited in New England.

I have the honor to be,
 Very sincerely yours,
 W. F. STEWART.

THE PROPERTY OF THE ARGONAUT MINING COMPANY.—LOCATION, TOWN OF HAMPDEN, COUNTY OF PENOBSCOT, MAINE.

BANGOR, Maine, April 5, 1880.

Gentlemen:—I have the honor to submit the following statement:

The ARGONAUT Mining Company own the mineral right to the first western extension of the Lawrence, or great Hampden lode, together with forty acres of the land upon which the vein is located. As the property is wholly undeveloped, and as the ore-channel is almost entirely obscured by surface soil, any attempt at its delineation must be purely conjectural. That the ARGONAUT is really a portion of the famous Hampden quartz vein, is an assured fact. The facility with which the ore channel may be traced in an unbroken straight course for many miles, warrants the belief that a slight amount of exploitation upon the ARGONAUT ground will expose the true ore channel upon which rest the Lawrence and Hampden Consolidated mining works.

The location of the ARGONAUT places it in the "line of promotion," and the owners of the property should by all means proceed to develop its mineral possibilities.

Respectfully yours,
 W. F. STEWART.

FOREIGN MINING NOTES.

No. 7.

BY F. L. BARTLETT, STATE ASSAYER.

In concluding my remarks on the English lead silver mines I have reserved for a full description the "West Chiverton" mine of Cornwall, as this mine is a fair representative of them all, both as regards machinery and working; and since it is an acknowledged successful mine and is worked skillfully perhaps I cannot do better than to use it for illustration.

The geological features of the "West Chiverton" mine are similar to those of the clay slates of our Huronian system, and like them frequently contain dykes of greenstone (called *elvans* in Cornwall) similar to the greenstone of Hampden, and like that, dipping much sharper than the slate itself. The general direction is east and west: In Cornwall the lead and silver bearing stratum lies above the copper, and the copper above the iron lodes. The clay slates are called "killas." They vary in color and composition and nearly always overlie the granite. The slates in which the lead silver deposits occur are fissile and we should call them schists. In Cornwall as the "killas" near the granite or become cupriferous they contain more silica and resemble the quartzite of the Blue Hill district. It will be seen there that the rocks of Cornwall may be classified: 1st—the upper clay slates schistose in character and containing lead and silver. 2nd—the harder gritty slates or "killas" containing

copper, and 3rd—the granite containing tin; all the formations being cut by "elvans" or trap dykes and the whole system greatly resembling some of the belts of our State. If on deep penetration tin should be discovered at Blue Hill (which is not at all unlikely) then we should have the Cornish system complete. In a future description of the Cornish copper mines I can explain this more fully.

The West Chiverton mine is located about 5 miles from Truro in Cornwall, and all the mine supplies come from there and the ore has to be hauled there for shipment. This mine has been worked about 20 years. At the time of my visit in January 400 hands were employed and the lowest depth reached was 1025 feet. There are 4 main shafts two of them being pump shafts. The drifts, winzes and galleries underground would make many miles in length if put together. The lodes run east and west with the strata, dipping towards the south 50°. The lode varies in width from 2 to 7 feet. The matrix or gangue is quartz, crystallized somewhat and intermingled with slate. The ore occurs in small bunches and thin seams; it consists of galena in coarse crystals mixed with zinc blende and iron pyrites, arsenical iron and a little copper sulphurets. Taking it as mined, it would not contain more than 4 or 5 per cent of clean galena, and an assay of the average stuff as it comes from the mine would make but a poor showing in silver, certainly not more than 5 ounces per ton. Now how is this rendered fit for market? We will see.

First of all the ore is broken up into lumps and sorted, by women, of whom the mine employs 150 or more, and stouter or more healthy looking females were never seen; they strike a blow and handle a barrow of ore in a manner that would shame many men; in fact they do a good man's work every day and receive for it only 20 or 25 cents, one pound (\$5.00) per month being about the average of girls' wages. No wonder that the Cornishmen care not for labor-saving machinery! But these women possess one blessing which many an American lady would deem invaluable, and that is, health. Many of them are fine looking and possess a fair education, and Sundays they come out dressed neatly and in good style; how they do it and live on \$5.00 per month is a mystery that is beyond the average Yankee guess. These women break and sort the ore into three grades: 1st, the small clear pieces of galena are put in one pile; 2nd, the clear pieces of zinc blende in another pile, and lastly the large pieces of rock containing no ore are thrown out and the balance all goes to the dressing floor. There are four of these floors provided with wooden jigs. The ore is crushed by passing it through one set of large rolls. The screens are 8, 12 and 18 holes to the inch. From the screens the sized ore goes directly to the jigs passing through a series of three; seventy-five per cent. of the vein matter is thus removed and the concentrated ore then consists of a mixture of galena, iron and zinc. It is now passed through another jig, which separates the galena from the iron and zinc, after which it is dried and both products are ready for the market, zinc and galena. The fine slimes are run into catch-pits and some of the ore saved, but it is not of much value. About 75 or 80 per cent. of the value of the ore is saved by this exceedingly simple process of jiggling. The jigs themselves are simple wooden affairs made on the ground. They each have two sieves 2 by 3 feet each which are acted upon by one side plunger. They are set on the ground without any roof over them; there are two sets on each floor and each set passes 40 tons of ore every 24 hours. The galena ore as it comes from the last jig ready for the market contains from 60 to 80 per cent. of lead and 22 to 28 oz. of silver per ton. The zinc ore contains from 30 to 40 per cent. of zinc metal.

Now to recapitulate and give figures. This mine is producing 100 tons of dressed lead ore and 300 tons of zinc ore per month, and that too from an ore that in our State is practically worthless, and the mine pays ten per cent. on the original investment. The prices received for the ore are for the lead \$80.00 per ton (2240 lbs.); 1st grade zinc ore. \$25.00; 2nd grade zinc. \$13.00. The men receive \$17.50 per month and the women \$5.00. They consume at the mine 400 tons of coal per month that costs \$5.00 per ton, and in addition to these expenses, pay a royalty of 1-20 to the original land owner.

Sixteen hundred gallons of water has to be raised every minute night and day, for the Cornish mines are *wet*. To raise this amount of water requires two engines with cylinders 80 inches in diameter with pump cylinders 17 inches in diameter. Some idea of the amount of water raised may be gained when I state that *two large overshot water wheels* are run by the water pumped from these mines. A Cornish pumping engine is a thing that needs to be seen to be appreciated. Had this mine been located in Maine I am afraid it would have never been operated. It was a *blind* lode and no vein was found until a depth of 48 feet was reached and no pay ore until a depth of 300 feet was reached. In the Chiverton district many mines have been started but this is the only one that is paying well.

In concluding my descriptions of the lead silver mines of England, I will add that the proportion of paying mines to the non-paying is very small, certainly not greater than one in twenty. As a general thing the ores are exceedingly poor in silver and they all have to be concentrated. The concentrating is all done by jigs and very well and cheaply done it is too. Mining as a general thing costs one-third less in England, although in some mines it costs as much per foot to drive as in our State. They get good prices for their ores and are able to sell any kind; not so with us. As a rule they have to go much deeper to find the same class of ores that we have. While their mines may be called quite permanent, they after a certain depth do not increase much in richness. Roughly stated, in a fair locality an English mine that yields 2500 lbs of lead ore per fathom will pay. A rib or vein of lead one inch wide in a lode will yield 1000 to 1200 lbs. per fathom. The cost of dressing lead ore varies from \$2.50 to \$4.00 per ton of the concentrates or from 15 to 35 cents per ton rough.

Most of the machinery used in the lead mines looks clumsy and unwieldy to an American, and I am inclined to think our labor saving machinery might be adopted by some of the English mines with profit to themselves as well as to us.

The Mining Expert.

With the opening of spring we expect great things for the mines that lie north, south and west of us, and when the tulips and daffodils and tanzy and horse-radish begin to bloom

THE SNIDE MINING EXPERT

will again come to the front and talk about indications and prospects. He will also mention the fissure veins as compared with deposits, and make a remark or two relative to hanging walls and contacts, and refractory ores and drifts and stopes and shafts and blossom rock and porphyry and bi-carbonate of soda and micaceous slate and protoxide of silver and tellurium and nux vomica and decomposed quartz and asafetida and amount of ore on the dump and telluride of gum arabic and oxide of slippery elm and bromide of calisthenics and citrate of magnesia and sulphate of quinine and glucose sulphides of chilblains and precipitate of essential alkali and iodide of bologna sausage, and many other precious metals of which neither you nor I, dear reader, wot. I know I couldn't—not by a gosh wot.

He takes you to the foundations of the earth and shows you the designs and rear elevations by which the Almighty arranged the construction of the earth, and he explains to you everything, from the formation of a molecule to the plan of salvation. He seems to have been present at a secret session of the Cabinet when the morning stars sang together, and therefore to have smuggled the geological plans of the Almighty in such a way that, if anything out of the regular order occurs within the bowels of the earth, he knows in a moment what the grand difficulty is.

I have met several of these mining experts in my time, and they filled me up so full of mineralogy and metallurgy and taffy that I felt billious. They seemed to know that I was a little rusty on mining, and so they gave me information regardless of cost, just to see me take it in. It was fun for them, no doubt, but it was cruel and wrong to me.

The snide mining expert is generally a man who cannot figure up what three weeks' board will come to at \$8 per week, to save his never-dying soul. He is, as a rule, a man who has for several years endured the mental strain and intellectual pangs of herding sheep, and whose brain has yielded to the unequal tension, and he takes up with making mining tests and giving estimates for the purpose of gaining the mental rest which he requires.

He does not go out to the mines till August because the snow is too deep on the Divide, and he comes in before September because snow has fallen in the upper camps and he cannot prospect. His time in camp is taken up by reading Robinson Crusoe and making estimates of how long the grub will hold out, and how much low grade bacon there is in sight. In town he prospects for croppings of coin silver and freemilling quarts of Old Crow and Willow Run whiskey.—[*Colorado Miner*].

Wages in Leadville.

Those who think of going to Leadville to get work will do well to look over the following scale of prices for different classes of workmen, as gleaned from the *Leadville Chronicle*:

Clerks receive from \$15 to \$30 per month, the supply being far in excess of the demand. Carpenters, \$3 to \$4 per day; plasterers the same. Lock and gun smiths, \$3 per day. Blacksmiths and shoers, \$3 to \$4.50 per day. Machinists, \$3.50 to \$4 per day. Engineers and firemen, \$3.50 to \$4 per day. Saddlers and harness makers, \$18 to \$20 per week, and many out of employment. Bakers are a drug on the market, and those who get employment have to work for \$10 a week; \$12.50 the extreme limit. Tailors are far in excess of the demand, and work by the piece, some of them barely making a living. Wood choppers get \$1.50 to \$2 per day and board. Shoemakers work by the piece, and hundreds are idle. Servant girls are in good demand, and are paid from \$25 to \$35 per month, and if good looking stand a good chance to get married; plain girls have but little show. Butchers and slaughter house hands, \$35 to \$75 per month and board, but scores are idle. Good wagon makers, \$3.50 to \$4 per day. A man and team gets \$8 per day, but his expenses are so heavy that he makes but little. All other classes of workmen are paid in the same proportion, with the demand very limited.

LODES, LEADS AND VEINS.

ATLANTIC.—The work is progressing rapidly. On Saturday last the tunnel was 16 feet in the vein and no indications of reaching the other side of the vein. The tunnel will be continued until the north wall is reached, and drifting will then commence.

DOUGLASS.—Work is progressing rapidly on the new mill, and the large boarding-house is nearly completed. The machinery for the mill is to be shipped the 15th of the present month. Large quantities of ore are being taken out as usual.

EXCELSIOR.—The Excelsior Copper Mining Company was organized in Belfast on the 30th of March instant, with a capital stock of \$500,000, divided into 100,000 shares of a par value of \$5 each. Thirty-six thousand shares were set aside as treasury stock. The directors are S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson and L. A. Knowlton. S. S. Marble was chosen President, N. M. Mathews Treasurer, W. G. Frye Secretary and Axel Hayford Superintendent. The mine is located at Blue Hill on the Douglass lode between the Bisbee and Young Hecla. It comprises about thirty acres of land bounded on the south by the main road and on the north by Third pond, and the veins of ore are seven hundred feet in length. One broad and rich looking vein has been cleared off and preparations to sink a shaft made, and a contract has been made with C. J. Hall to sink the shaft as fast as possible by the use of a steam drill. The Directors passed an order not to issue any individual stock and to sell but a limited amount of Treasury stock.

YOUNG HECLA.—Supt. Duff reports that the shaft is making satisfactory progress. It has now reached a depth of thirty-six feet and gives great promise of a valuable mine as depth is attained. The new derrick works to perfection and is of great assistance. He says: "In the location of the shaft it was my aim to strike the foot wall near the point of perpendicular pitch, about thirty feet below the surface, and I was more than pleased to find that my premises were correct as we now have it in the shaft. We are raising some very fine ore."

TWIN LEAD.—Pres'dent Bugbee has just returned to Bangor from a visit to the mine. The shaft is now down 80 feet. At the 100 foot level drifting on the vein will commence. There is already quite an amount of handsome ore on the dump. The new whim works very satisfactorily.

STOVER HILL.—The drift at a depth of 100 feet is in 20 feet. Prof. Stewart is soon to visit the mine and report upon it.

CHIEF ISLE.—The Chief Isle Silver Mining Co. was recently organized at Ellsworth, with the following list of officers: President, Geo. W. Fiske; Treasurer, Lewis Friend; Secretary, M. Gallert; Directors, Geo. W. Fiske, Owen Byrn, E. H. King, L. B. Wyman, C. M. Austin; H. S. Bartlett, Superintendent. The capital stock of the company is \$500,000 in \$5 shares, of which 25,000 are reserved as a treasury fund. The mine is located at Bartlett's Island.

GRANT.—At the annual meeting of the stockholders of the Grant Silver Mining Company held at Ellsworth, April 6, the old board of officers were elected for the ensuing year. There will be an adjourned meeting of the stockholders at the office of G. W. Fiske, on Saturday, April 17, at 7 1-2 P. M. The shaft is down more than eighty feet and is looking encouraging. It last week passed through a small vein or stringer which showed some very good silver specimens. The workmen are now in the slate formation which overlies the four-foot vein which will probably be reached in about three weeks. Drifting will then commence for the larger vein which lies about forty-two feet distant.

WESTERN UNION.—The shaft is down 20 feet and the work of development is being pushed.

HANCOCK COUNTY.—The Hancock County Silver Mining Company was organized in this city on Wednesday last. The following officers were chosen: President, John E. Booth; Vice President, J. C. Buzzell; Treasurer and Secretary, Scott Nickerson, all of Bangor; Directors, John E. Booth, J. C. Buzzell, F. O. Beal, Albert Smith, J. Henry Smith, of Bangor, Colin McKenzie and John Gray of Ellsworth. The capital is \$500,000 in \$5 shares, with a treasury fund of 30,000 shares. The mine is located in the town of Hancock and the property adjoins the American Union.

SWAN.—The shaft is down 23 feet, and the vein is constantly widening. Timbering will be continued and shaft house finished the present week.

FRANKLIN EXTENSION.—This company was organized at Portland on Tuesday last, with the following list of officers: President, Hon. L. D. M. Sweat; Treasurer, W. E. Gould; Secretary, A. W. Coombs, all of Portland; Directors, Hon. L. D. M. Sweat, W. E. Gould, D. B. Ricker, O. M. Metcalf, H. P. Merrill, M. D., of Portland, N. P. Doe of Bangor, and E. Mullan of Hancock. Capt. Isaac Hamilton of Portland was chosen Superintendent. This company have purchased the property adjoining the Franklin Silver Mine, which has one of the finest surface showings in the State. It may be confidently expected that with such a strong organization and such flattering indications for a mine, it will soon take rank among the leading mines of the State.

MILLBROOK.—Among the many workings at Sullivan none are more noticeable than the two mines down in the hollow where the steady puffs of steam and the musical clink of the hammer are heard incessantly. The Millbrook, the second oldest opening in Sullivan, is now at the depth of eighty feet, well timbered up in two compartments and showing a very good body of the well-known Sullivan sulphurets. Very heavy steam machinery calculated to cover all necessity in that line to a depth of one thousand feet has been put in and is well arranged in a business-like looking building. The whole working is under the charge of Sidney E. Horne who has shown by his thoughtful economy, his rare adaptability to this species of work; and this is not the least important feature in the management of a mine, as many companies are beginning to realize.

SULLIVAN FALLS.—The Sullivan Falls without the age of its neighbor has an advantage which it holds in common with the Sullivan, and that is a heavy surface showing of good ore. A comparison of specimens from the Sullivan and Sullivan Falls at equal depths will satisfy anyone of the identity of the veins. Very few assays have been made, but the few that have, place its silver bearing qualities beyond a shadow of doubt and give a definite hope of very rich ore at no great depth.

SULLIVAN.—At a recent meeting held in Boston, Mess. Francis A. Osborn, Edward D. Hayden and Chas. F. Farrington were chosen directors in place of Wm. D. Lewis, Lyman B. Greenleaf, and Geo. G. Richards, resigned.

WOODSTOCK.—The Woodstock Gold and Silver Mining Company has recently been organized at Lewiston, with a capital of \$500,000 divided into \$5 shares of which 20,000 are reserved for treasury purposes. The officers are: President, Dr. M. C. Wedgewood; Treasurer and Secretary, Hon. F. M. Drew; Directors, Dr. M. C. Wedgewood, Hon. F. M. Drew, Judge W. P. Whitehouse, Wm. Small, Jr., all of Lewiston. The property of the company consists of 33 acres of land in the town of Woodstock, Oxford county, Me., adjoining the mine now being worked by the Lone Star Gold and Silver Mining Company. This property is reported to carry a true fissure vein from four to six feet in width from which ore has been taken assaying all the way from \$300 to \$3,000 to the ton in silver, gold, copper and lead.

LEBANON, CT.—The Sunday Sun says the work of development is progressing expeditiously. The shaft-house has been completed and the shaft timbered. The indications are daily growing more promising as the shaft descends, and handsome specimens of ore taken from the shaft were recently received at the company's office at Portland.

GARDNER MOUNTAIN.—The shaft has now reached a depth of about 70 feet. An engine of 12 horse power has just been purchased and work will be pushed more expeditiously than ever.

NEW HAMPSHIRE MINES.—Mining at the Gardner Mountain Section, New Hampshire, is soon to be one of the leading industries of that State. A syndicate of New York capitalists have purchased a large tract of mineral land, on which are several valuable copper mines, and are to commence work at once. Large smelting works are to be erected at no distant day. Among the most prominent copper mining companies which the citizens of Maine are interested in are the Haviland, Grafton and Ammonoosuc. The Haviland is said to be the best developed mine in the New England States, and will soon be thoroughly equipped with new machinery for working the mine. Several large copper veins are exposed in the several drifts. The stock of the company has advanced very much within the past week and is being bought by our leading citizens as an investment, not for speculation. The management are men who mean to push the work right along. Large rich specimens of sulphurets of copper were lately exhibited. The Grafton is next to the Haviland and is now being placed on the market in club shares. Ammonoosuc is next to the Grafton. Work will be resumed this month, which was stopped in February owing to the large amount of snow. These mining companies are under the best management and will be favorite stocks in the market.—[Portland Argus.

Carmel.

Editor of the Maine Mining Journal:

Work on the Boyd mine has begun, and is being pushed day and night, with the most flattering results. Ore of superior quality is being taken out in large quantities, considering the depth of the shaft, which is between 12 and 14 feet.

Carmel, Me., Apr. 7, 1880.

N. Y. Z.

Nuggets.

The ice left Blue Hill harbor Monday night.

The Crocker vein in Marshfield shows rich in galena carrying silver.

The port of Bangor is now open to navigation. The ice left the Penobscot on Tuesday.

Parties for two weeks past have been bonding all known mineral lands in Machias and vicinity.—[Machias Union.

Parties are sinking a shaft on land of Ansel Butler in Franklin. A depth of 12 feet has been reached and the vein is 3 feet wide.

The mining fever has struck Fairfield and prospecting is the order of the day. George Parker presents us with specimens of crystallized quartz containing copper; other specimens containing lead. J. S. Hoxie presents specimens of quartz containing lead with traces of silver, from off the farm of Galen Hoxie. G. A. Joy seems to be the most industrious hunter after the precious metal and has fairly loaded our table down with his specimens containing lead and copper. Edwin Bradbury, of Benton, has discovered a silver mine on his farm at East Benton. Samples have been assayed containing \$7 in silver. Preston Woodson thinks he has struck it rich this time and exhibits some specimens showing the "color" which he took from the ledge near the Baptist church. There is nothing remarkable about his claim unless it be its close proximity to

so much fire, which in a country like this where fuel is so plenty, is of no practical advantage. Prospectors have got up considerable excitement over their specimens, which they have on exhibition at F. M. Cotton's drug store. There is some talk of opening a mining exchange here.—[*Fairfield Journal*.]

New Companies

Name of Company.	Location.	Date.	Capital.
Iceland Chief Silver Mining Co.,	Ellsworth,	March 25,	\$500,000.
West Bay Silver Mining Co.,	Cherryfield,	March 27,	500,000.
Casco Silver Mining Co.,	Portland,	March 27,	500,000.
Hall Mining Co.,	Blue Hill,	March 27,	500,000.
Golden Circle Mining and Milling Co.,	Portland,	March 27,	500,000.
Farnham Silver Mining and Smelting Co.,	Brooks,	April 1,	500,000.
Kennebec Mining and Stock Exchange,	Augusta,	March 27,	10,000.

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 7, 1890.

[illegible]

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 7, 1980.

[illegible]

MAINE MINING DIRECTORY.

INCORPORATED COMPANIES.

Acton Silver Mining Co., Acton, Me.
 American Union S. M. Co., Hancock, Me.
 Ammonoosuc Copper Mining Co., Gardner Mountain, N. H.
 Androscoggin Acton Silver Mining Co., Acton, Me.
 Appleton Mining and Smelting Co., Camden, Me.
 Ashley Silver Mining Co., Sullivan, Me.
 Atlantic Copper Mining Company, Blue Hill, Me.
 Bangor & Blue Hill Falls Mining Co., Blue Hill, Me.
 Bay View Silver and Copper Mining Co., Blue Hill, Me.
 Bisbee Copper Mining and Smelting Co., Blue Hill, Me.
 Blue Hill Bay Silver Mining Co., South Surry, Me.
 Blue Hill Central Copper Mining Co., Blue Hill, Me.
 Blue Hill Copper Mining and Smelting Co., Blue Hill, Me.
 Boston Acton Silver Mining Co., Acton, Me.
 Boston Silver Mining Co., Ellsworth, Me.
 Bucksport Silver Mining Co., Bucksport, Me.
 Bullion Mining and Milling Co., Acton, Me.
 Candage Copper Mining Co., Blue Hill, Me.
 Carroll Silver Mining Co., East Wakefield, N. H.
 Carter Silver Mining Co., Long Island, Blue Hill, Me.
 Casco Mining Co., Acton, Me.
 Castine Mining Co., Castine, Me.
 Cherryfield Silver Mining Co., Cherryfield, Me.
 Chief Isle Silver Mining Co., Ellsworth, Me.
 Clark Silver Mining Co., Franklin, Me.
 Colorado Chemical and Smelting Co., Winterport, Me.
 Comstock Silver Mining Co., Bucksport, Me.
 Consolidated Hampden Silver Mining Co., Hampden, Me.
 Corinna Silver Mining Co., Corinna, Me.
 Darling Silver Mining Co., Blue Hill, Me.
 Deering Acton Silver Mining Co., Acton, Me.
 Deer Isle Jr., Silver Mining Co., Deer Isle, Me.
 Deer Isle Silver Mining Co., Deer Isle, Me.
 Denbo Silver Mining Co., Lubec, Me.
 Dick and Williamson Mining Co., Le Tete, N. B.
 Dirigo Copper Mining Co., Blue Hill, Me.
 Dirigo Silver Mining Co., Acton, Me.
 Douglass Copper Mining Co., Blue Hill, Me.
 Early Dawn Silver Mining Co., Hancock, Me.
 East Blue Hill Gold and Silver Mining Co., East Blue Hill, Me.
 Eastern Star Silver Mining Co., Ellsworth, Me.
 East Surry Silver Mining Co., East Surry, Me.
 Edgemoggin Silver Mining Co., Sedgwick, Me.
 Egypt Silver Mining Co., Franklin, Me.
 El Dorado Silver Mining Co., Acton, Me.
 Ellsworth Silver Mining Co., Ellsworth, Me.
 Excelsior Copper Mining Co., Blue Hill, Me.
 Eureka Mining Co., Blue Hill, Me.
 Farnham Silver Mining Co., St. Albans, Me.
 Favorite Copper Mining Co., Blue Hill, Me.
 Faneuil Hall and Sullivan Mining Co., Sullivan, Me.
 Fort Knox Silver Mining Co., Prospect, Me.
 Forest City Silver Mining Co., Acton, Me.
 Franklin Extension Silver Mining Co., Franklin, Me.
 Franklin Silver Mining Co., Franklin, Me.
 Gardner Mountain Copper Mining Co., Gardner Mt., N. H.
 Globe Silver Mining Co., Gouldsboro, Me.
 Golden Circle Mining and Milling Co., Sullivan, Me.
 Gouldsboro Silver Mining Co., Gouldsboro, Me.
 Grafton Copper Mining Co., Gardner Mountain, N. H.
 Granger Copper Mining Co., Blue Hill, Me.
 Grant Silver Mining Co., Hancock, Me.
 Great Eastern Silver Mining Co., St. Albans, Me.
 Hagan Silver Mining Co., Hancock, Me.
 Hall Mining Co., Blue Hill, Me.
 Hancock Silver Mining Co., Hancock, Me.
 Harrington Silver Mining Co., Carmel, Me.
 Haviland Copper Mining Co., Gardner Mountain, N. H.
 Home Silver Mining Co., Gouldsboro, Me.
 Island City Gold and Silver Mining Co., Vinalhaven, Me.
 Katahdin Iron Co., Katahdin Iron Works, Me.
 Lady Elgin Silver Mining Co., Blue Hill, Me.
 Lawrence Silver Mining Co., Hampden, Me.
 Lebanon Acton Silver Mining Co., Lebanon, Me.
 Little Blue Hill Mountain Mining Co., Blue Hill, Me.
 Little Sue Silver Mining Co., Lamaine, Me.
 Lone Star Gold and Silver Mining Co., Woodstock, Me.
 Maine Acton Silver Mining Co., Acton, Me.
 Maine Silver Mining Co., Dexter, Me.
 Malachite Mining Co., Winterport, Me.
 McFarland Silver Mining Co., Hancock, Me.
 Middlesex Gold Mining Co., Portland, Me.
 Millbrook Silver Mining Co., Sullivan, Me.
 Mineral Hill Mining Co., East Wakefield, N. H.
 Mineral Spring Silver Mining Co., Palmyra, Me.

Milton Mining and Milling Co., Sullivan, Me.
 Monarch Mill and Mining Co., Augusta, Me.
 Morancy Silver Mining Co., Sullivan, Me.
 Mount Pleasant Silver Mining Co., Levant, Me.
 Norombega Silver Mining Co., Hampden, Me.
 Oldtown Mining Co., Bradley, Me.
 Oshkosh Consolidated Mining Co., Bangor, Me.
 Owl's Head Silver Mining Co., South Thomaston, Me.
 Oxford Silver Mining Co., Milton Plantation, Me.
 Penman Gold Mining Co., Portland, Me.
 Penobscot Mining Co., Penobscot, Me.
 Petit Menan Silver Mining Co., Petit Menan, Me.
 Pine Tree Silver Mining Co., Sullivan, Me.
 Pittston Gold and Silver Mining Co., Pittston, Me.
 Point Pleasant Silver Mining Co., Bucksport, Me.
 Porterfield Ledge Mining Co., Camden, Me.
 Portland Acton Silver Mining Co., Acton, Me.
 Portland Blue Hill Mining Co., Blue Hill, Me.
 Portland Sullivan Silver Mining Co., Sullivan, Me.
 Queen City Silver Mining Co., Bangor, Me.
 Revere Silver Mining Co., Blue Hill, Me.
 Riverside Mining Co., Camden, Me.
 Robert Emmett Silver Mining Co., Hancock, Me.
 Silver Reef Mining Co., Blue Hill, Me.
 Snow Silver Mining Co., Bucksport, Me.
 Sullivan Falls Silver Mining Co., Sullivan, Me.
 Stover Hill Copper Mining Co., Blue Hill, Me.
 Sullivan Silver Mining Co., Sullivan, Me.
 Swan's Island Silver Mining Co., Swan's Island, Me.
 Swan Mining Co., Franklin, Me.
 Trescott Mining and Manufacturing Co., Trescott, Me.
 Trio Silver Mining Co., Blue Hill, Me.
 Twin Lead Copper Mining Co., Blue Hill, Me.
 Victor Silver Mining Co., Gouldsboro, Me.
 Waukeag Silver Mining Co., Sullivan, Me.
 West and Sowle Silver Mining Co., Gouldsboro, Me.
 Western Union Silver Mining Co., Hancock, Me.
 West Bay Silver Mining Co., Gouldsboro, Me.
 White Star Silver and Copper Mining Co., Blue Hill, Me.
 Woodstock Gold and Silver Mining Co., Woodstock, Me.
 Young Hecla Copper Mining Co., Blue Hill, Me.

PRIVATE COMPANIES.

Antimony Silver Mining Co., Levant, Me.
 Argonaut Silver Mining Co., Hampden, Me.
 Arctic Mining Co., Blue Hill, Me.
 Bassick Silver Mining Co., Lowell, Me.
 Barnes' Strike, Bucksport, Me.
 Beacon Hill Silver Mining Co., Sullivan, Me.
 Blue Hill Valley Copper Mining Co., Blue Hill, Me.
 Boston and Bucksport Silver Mining Co., Bucksport, Me.
 Boyd Gold Mining Co., Carmel, Me.
 Britton Silver Mining Co., Cherryfield, Me.
 City of Boston Copper Mining Co., Blue Hill, Me.
 Eastern Belle Gold and Silver Mining Co., Penobscot, Me.
 Eastman Silver Mining Co., Hampden, Me.
 Emma Albina Silver Mining Co., No. Penobscot, Me.
 Enterprise Silver Mining Co., Blue Hill, Me.
 Eskutassis Gold Mining Co., Lowell, Me.
 French Silver Mining Co., St. Albans, Me.
 Gould Silver Mining Co., St. Albans, Me.
 Gray Silver Mining Co., Blue Hill, Me.
 Guilford Silver Mining Co., Guilford, Me.
 Hamilton Mining Co., Blue Hill, Me.
 Hector Silver Mining Co., Gouldsboro, Me.
 Hillside Silver Mining Co., Hermon, Me.
 Holland Silver Mining Co., St. Albans, Me.
 Holmbow Copper Mining Co., Orrington, Me.
 Jersey Copper Mining Co., Blue Hill, Me.
 Mascarene Mining Co., St. George, N. B.
 McIntyre Copper Mining Co., Blue Hill, Me.
 Morris Silver Mining Co., Acton, Me.
 Orient Silver Mining Co., Newport, Me.
 Pearl of the East Silver Mining Co., Franklin, Me.
 Porter Silver Mining Co., St. Albans, Me.
 Russ Clay Gold and Silver Mining Co., No. Blue Hill, Me.
 Shorey Silver Mining Co., Lowell, Me.
 Silver Isle Silver Mining Co., Franklin, Me.
 Silver Bonanza Mining Co., Surry, Me.
 Silver Wave Silver Mining Co., Acton, Me.
 Star of the East Mining Co., Blue Hill, Me.
 State of Maine Silver Mining Co., Franklin, Me.
 Somerset Silver Mining Co., St. Albans, Me.
 Storm King Silver Mining Co., Blue Hill, Me.
 Tip Top Silver Mining Co., Blue Hill, Me.
 Tugwassa Silver Mining Co., Sullivan, Me.
 Victoria Silver Mining Co., Blue Hill, Me.
 York County Silver Mining Co., Acton, Me.

ACTON SILVER MINING COMPANY, ACTON, Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Westcott, Judge Nathan Cleaves, Hon. Franklin J. Collins, Clarence Hale, Hon. Geo. Walker. Office of Company, 22 Exchange Street, Portland, Me.

IVORY LIBBEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Biagg, Bangor. Directors—F. M. Loughton, Bangor; F. W. Hill, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.

E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY, Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec, 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St., Portland Me.

E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING COMPANY, Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.

WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO., Appleton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each; Treasury Fund, 36,000 Shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors—John Bird, George H. Cleveland, Moses Webster, S. E. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.

CHARLES K. MILLER, Supt., Camden.

BANGOR & BLUE HILL FALLS MINING CO., Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.

CHARLES K. MILLER, Supt., Camden.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord, Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manering Emery.

B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon. S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.

A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO., Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson of Bangor; Vice-President, John S. Jenness of Bangor; Treasurer, Edward B. Nealley of Bangor; Secretary, John R. Mason of Bangor; Directors—Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.

BOSTON ACTON SILVER MINING COMPANY, Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Dennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

BULLION MINING AND MILLING COMPANY, Acton, Me.
Capital, \$150,000, in 15,000 shares; par value \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Westcott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Westcott, Frank L. Bartlett, John S. Morris, Portland.

CLARK SILVER MINING CO., FRANKLIN, Me. Incorporated, Dec., 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY, Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken.

W. A. LEONARD, Supt.

CONSOLIDATED HAMPTON SILVER MINING CO., Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares, \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Loughton, Bangor. Vice-President, Wm. H. Strickland, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, C. F. Bragg, F. W. Hill, J. P. Tucker.

CHARLES DUNTON, Supt.

COMSTOCK SILVER MINING COMPANY, OF MAINE, Bucksport, Me. Incorporated, February, 1880.
Capital, \$500,000; Shares \$2.00 each.
Office, 40 Water St., Room 46, Boston, Mass.
President, Hon. William Wirt Warren, Boston; Treasurer, Oscar E. Doolittle, Boston; Secretary, K. B. Henchman, Bucksport; Directors—Hon. William Wirt Warren, Boston; Hon. Samuel B. Noyes, Boston; George F. Ropes, Salem; William Read, Boston; Samuel J. Noble, Boston; Dr. S. E. Thayer, Boston; George A. Morse, Boston.

JOHN ROBERTS, Mine Supt.

CANDAGE COPPER MINING COMPANY, Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 Shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herlick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY, Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, William C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.

CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. E. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamilton, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.

HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY, Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Wm. H. Darling, Bangor. Treasurer, Stephen G. Dowds, Bangor. Secretary, Dr. W. K. Kuowles, Bangor. Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Huckins, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING COMPANY, Acton, Me. Incorporated, Jan., 1879.
Capital, \$500,000; Shares, \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elieison O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors—I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elieison O. Curtis, Geo. A. Jones, Rufus B. Foss.

W. A. GOULD, Supt.

DEERING-ACTON SILVER MINING COMPANY, Acton, Me.
Capital, \$500,000 in 100,000 shares; par value, \$5. Offices, 93 Exchange Street, Portland, Me., and Sears building, Boston.
President, J. M. G. Palmer; Treasurer, E. D. Easton; Secretary, M. E. Moore; Directors—Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.

EASTERN STAR SILVER MINING COMPANY, Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, A. F. Smith, Bangor; Directors—A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Charles H. Dennett.

EAST BLUE HILL GOLD & SILVER MINING CO., East Blue Hill, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M.D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.

GEORGE W. COLLINS, Supt.

EDGE MOGGIN SILVER MINING COMPANY, Sedgwick, Me. Incorporated, June, 1877; re-organized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors—Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. K. Page.
J. W. REVERE, Supt.
Office of Company, 22 Exchange St., Portland, Me. Boston office, No. 1 Exchange Place. W. H. McClintock & Co., Transfer Agents.

ELDORADO SILVER MINING COMPANY, Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fisk, Portland; Secretary, N. S. Gardner, Portland; Directors—J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fisk, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EAST SURRY MINING COMPANY, Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors—Chas. H. Varnham and George W. Hutchings, East Surry; Naham Hinckley, Surry; Lewis Friend and Calvin G. Peck, Ellsworth; Supt., Isaac H. Grant, East Surry.

EXCELSIOR COPPER MINING COMPANY, Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.

AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY, Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.

HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING COMPANY, St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors—E. H. Nealley, Monroe; Geo. F. Harriman, Belfast; M. Chase, Brooks; J. H. Gordon, Brooks; F. F. Favor, Boston; John Atwood, Boston; E. C. Arey, Winterport.

CHAS. E. LANE, Brooks, Supt.

D. N. EWELL, Frankfort, Transfer Agent.

FOREST CITY SILVER MINING COMPANY, Acton, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Redon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Barker, James E. Sturgis, Benjamin Barnes, Jr.

GARDNER FLOYD, Supt.

FORT KNOX SILVER MINING COMPANY, Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.

A. R. FELLOWS, Supt.

FAVORITE COPPER MINING COMPANY, Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill; Secretary, Henry I. Billings, Blue Hill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Bartlett, E. M. Hersey, I. S. Emery.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1886.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Latham, Jeremiah Wooster.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 5000 Shares.

President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Manson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$40,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggin, Bangor; Secretary, E. M. Hersey, Bangor; Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Sweet, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.

SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.

President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAllister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—Guy W. McAllister, J. H. Douglass, A. C. Swazey, Enoch R. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 Shares.

Geo. F. Calet, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calet, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer, of Biddeford.
JERE G. SHAW, Supt.

MINERAL HILL MINING COMPANY,
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.

President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO.,
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 50,000 Shares.

President, Weston F. Milliken; Treasurer, James L. Racklin, Secretary, Chas. D. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 29 Exchange St., Portland, Me.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.

President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and G, 3d floor.

President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Anne r, Blue Hill, Me.; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Dunklee, Boston.

QUEEN CITY SILVER MINING COMPANY,
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndal Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 40,000 Shares.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.

P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.

President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 28,000 Shares.

President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.

H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.

Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, 50,000 Shares.

President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.

B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.

Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.

W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.

President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.

E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.

RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 50,000 Shares.

President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.

CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.

President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.

B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.

President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WHITE STAR SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Hon. H. C. Martin, Brunswick; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, F. H. Clergue, Bangor; Directors—H. C. Martin, J. W. Milliken, James Adams, W. H. Darling, Parris G. Merrill, F. H. Clergue.

WEST AND SOWLE MINING COMPANY.
On the Gouldsboro Lode, Gouldsboro, Me.
Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 32,000 Shares.
President, Joseph H. West, Franklin; Treas-
urer, H. B. Saunders, Ellsworth; Secretary, E. F.
Robinson, Ellsworth; Directors—Joseph H. West,
H. B. Saunders, John D. Hopkins, J. F. Whitcomb,
E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-Pres-
ident, Charles Hamlin, Bangor; Treasurer, John
R. Mason, Bangor; Secretary, W. F. Seavey, Ban-
gor; Directors—John S. Jenness, Charles Hamlin,
Samuel R. Prentiss, Wm. D. Swazey, William H.
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There will be a special meeting of the stockholders of
the Boston Acton Silver Mining Co., at the office of
Rollins & Adams, No. 22 Exchange St., Portland, Me.,
on Friday April 16, 1880, at 4 o'clock, P. M., to see if
the company will authorize the Directors to sell the
property of the company to the ACTON CONSOLIDATED
MINING AND MILLING Co., or to make other arrange-
ments for the practical consolidation or merger of this
company in said Acton Consolidated Mining and Mill-
ing Co. Per order of the Directors.

STERLING DOW, Secretary.

ACTON SILVER MINING CO.

There will be a special meeting of the stockholders of
the Acton Silver Mining Co., at the office of Rollins &
Adams, No. 22 Exchange St., Portland, Me., at 10
o'clock, A. M., on Friday, April 16, 1880, to see if the
company will authorize the Directors to sell the prop-
erty of the company to the ACTON CONSOLIDATED
MINING AND MILLING Co., or to make other arrange-
ments for the practical consolidation or merger of this
company in said Acton Consolidated Mining and Mill-
ing Co. Per order of Directors.

JOHN S. MORRIS, Secretary.

PORTLAND ACTON SILVER MINING CO

There will be a special meeting of the stockholders of
the Portland Acton Silver Mining Co., at the office of
Rollins & Adams, 22 Exchange St., Portland, Me., on
Friday, April 16, 1880, at 2 o'clock, P. M., to see if the
company will authorize the Directors to sell the prop-
erty of the company to the ACTON CONSOLIDATED MIN-
ING AND MILLING Co., or to make other arrangements
for the practical consolidation or merger of this com-
pany in said Acton Consolidated Mining and Milling
Co. Per order of Directors.

CHARLES D. CLARK, Secretary.

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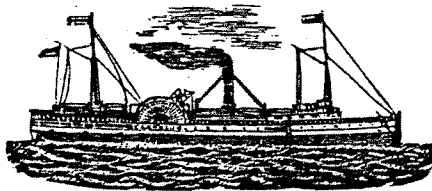
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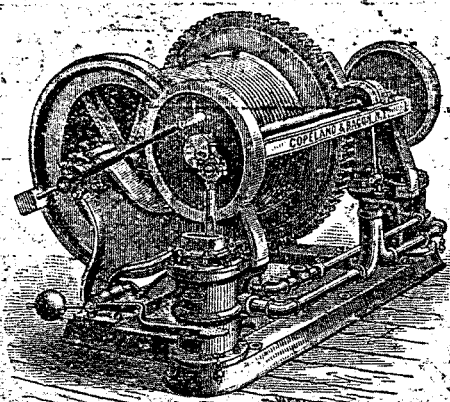
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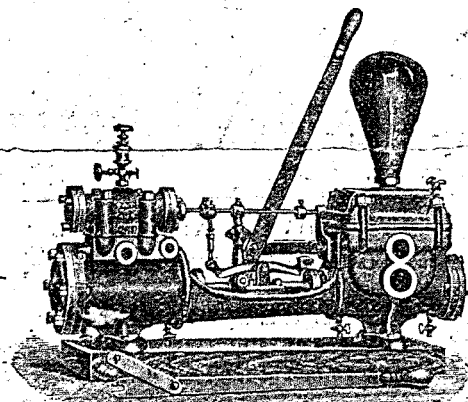
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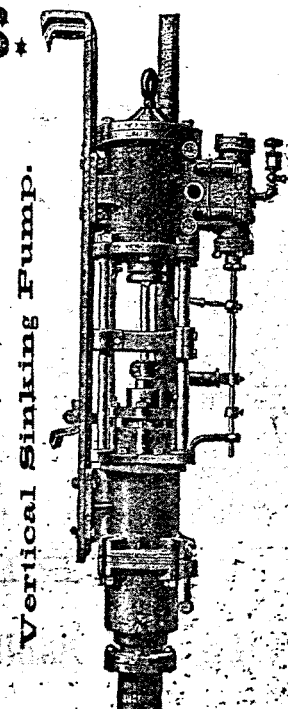
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DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

[Entered as second-class mail matter.]

Vol. I. No. 16.

BANGOR, MAINE, APRIL 16, 1880.

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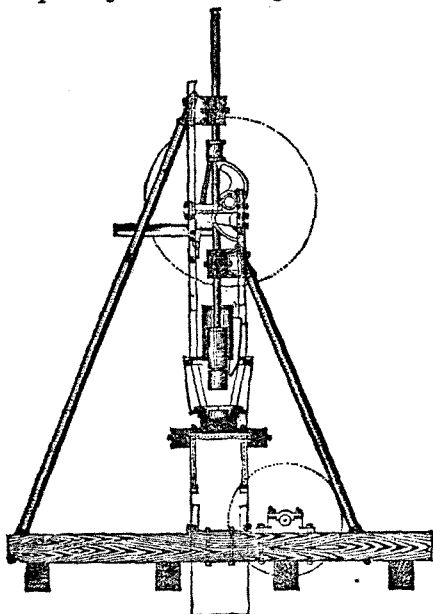
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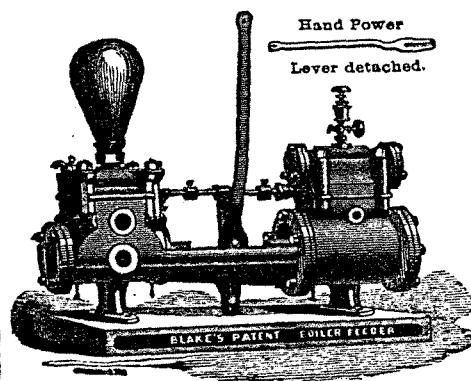
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Monson and J. W. Gould of Blue Hill.

A shaft has been worked to the depth of seven
feet, the ore taken out being very rich and prom-
ising, assaying \$35.00 to the ton. At a meeting of
the Bondholders at the Maine Mining Exchange
in Bangor, the Company voted to form a joint
stock company under the laws of the State of
Maine, said Company to have a capital of \$500,000,
to be divided into 100,000 shares of a par value of
\$5.00 each, which are to be forever unassessable.
Said Company agrees to put into the Treasury so
formed 23,333 shares of the capital stock, and three
thousand dollars (\$3,000) in cash; and of the re-
mainder \$3,000 shares are for sale at 40 cts. per
share.

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February 26, 1880.

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Maine Mining Journal.

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Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, APRIL 16, 1880.

OUR MINES.

With the opening of spring renewed activity is noticeable among our numerous mining camps. It is now evident that Maine will during the present season experience an excitement far surpassing anything ever before witnessed within her borders. Our vast stores of mineral wealth have attracted a wide attention and capital is now ready and eager to aid in the work of development.

During the winter months the mining interest has made rapid advancement. In portions of the State removed from the mines considerable interest has been created, while in the cities and towns in the heart of the mining regions an almost feverish excitement exists. A few months have wrought great changes and in places where mining was scarcely thought of it is now the absorbing topic of conversation. A wide interest has been created outside of the State, and in Boston, New York and the leading moneyed centres a lively interest is taken in Maine mines.

Our people have been slow to appreciate the importance of the giant industry growing up in their midst. They have failed to fully realize that a new branch of industry was rising into prominence which is destined in the near future to overshadow all others. It has been hard for many a resident of the State to believe that beneath Maine's rocky exterior were inexhaustible quantities of the precious and useful metals. Gradually, however, the scales have been dropping from the eyes of the people and they are now aroused to the prominence which mining is destined to attain.

In the rapid march of progress we regret to say that the press of the State have taken far from an active part. There are exceptions to this but they are few. Until recently but little has been published in the state papers in regard to our mines; very much more has been published by journals outside of the State. The silence of the newspapers of Maine on this important subject is inexcusable. They are now awakening to its importance and giving mining a large share of attention.

In the midst of a severe winter a wonderful amount of

work has been done in the Maine mines and the work of development has made rapid progress during the past few months. The miner has boldly faced the snow and the cold and forced his way through the surface into the regions below. Very remarkable progress has been made in many of the mining camps and those who have absented themselves from the mines during the winter months will find magical changes wrought.

With the departure of snow and the return of spring increased activity is discerned. We have now with us many experienced mining men. The work in the leading mines is being pushed with increased vigor and developments are making rapid progress. Many valuable properties that have remained covered with a mantle of snow will soon be the scene of active operations. Already people are swarming to Blue Hill, Sullivan, Acton and other mining regions and an army of prospectors will soon be abroad seeking new fields.

(From the Mining Review.)

Mining Experts.

Notwithstanding all that has been said concerning mining experts, the disfavor and ridicule into which the name has fallen, and ill-concealed contempt with which they are regarded by the miner and the public generally, there never has been a time in the history of mining when a thoroughly educated class of men fully competent were more necessary or really more in demand. The fact that hundreds of men throughout the mining country, who may have some superficial knowledge of certain localities, claim to be mining experts, and that large and disastrous failures have resulted from investments made upon their reports, only proves the more imperative need of men competent to make an examination and give a reliable report.

The fact that a lot of quack doctors were cruelly imposing upon a community suffering from some dangerous disease shows the urgent need of skilled and able physicians. A man who has had practical experience as a miner, and is possessed of good judgment, may be able to give a valuable opinion as to the prospects and value of a mine in a limited locality where he is thoroughly acquainted, but a man thoroughly educated in geology, mineralogy and chemistry, with a practical knowledge gained from actual experience, should be able to give a report that will be valuable to the capitalist upon any section. The acknowledged importance of experts in every other branch of business, the weight of their evidence in our courts of law, and the general acceptance of their decision, is well known.

At the present time the people of this country, except the Maine Legislature, are turning with interest to the mineral wealth of the mountains, and the placer capitalists desire to invest money, corporations want to put in capital and machinery, but all are ignorant, they have no time to study, nor is it necessary. If a gentleman wishes to purchase a diamond he can find in any reputable jewelry house, an expert whose decision he can trust implicitly, and the same is true in regard to any other line of business. We believe there are plenty of gentlemen well qualified to make an intelligent examination of a mine and give a report which capitalists may act upon with certainty and safety, but those

men have been crowded back by a presumptuous class of so-called experts, until now the name "mining expert" has not received honor. A few costly experiments, however, will soon show the difference between the true and the false, between the true expert and the pretender. The magnitude of mining investments, the importance of correct information to the capitalist and the manager of mining companies, as well as to the smaller investor will create, and already has created a demand for a class of mining experts of unquestionable ability and integrity. There is a field opening here for young men of talent, that will be profitable and not without honor and responsibility.

Mining cannot free itself from the hands of dishonest speculators until there is a class of well-known and respectable experts whose opinions must be consulted and without whose endorsement no mine would have a value. Capital will venture boldly where there is something reliable to venture upon, and nothing can be more satisfactory than the best judgment of a skillful, competent and honest man. Mining at this time needs more than any other one thing, men who are in the truest sense of the word, mining experts, men who in the laboratory and the field have learned to read the history, printed in unmistakable language in the age-bound pages of the rocks, and to interpret the message of truth that has been written by the hand of time upon the stony tablets of the mountain gorge and the sands of dead and silent ocean plains.

Personals.

PROF. F. L. BARTLETT has been in Bangor the present week.

STEPHEN JENNINGS, Esq., Treasurer of the Douglass mine, visited Blue Hill early this week.

MR. A. E. BARCLAY, assayer and analyst, is soon to remove from Betts Cove, New Foundland, to this city.

MR. L. V. DEFOREST, of the New York Mining Stock Circular, made the MINING JOURNAL a call this week.

MR. JOHN S. MORRIS, of Portland, has been to Hartford, Conn., during the past week on business for the Acton mines.

SUPT. LEPROHON, of the Atlantic, was recently called to Portland by the sickness of friends but has now returned to Blue Hill.

PROF. W. F. STEWART left Bangor last week for Blue Hill. He is in great demand and has numerous engagements ahead.

MR. J. D. PRESCOTT, President of the Milton, has been elected a member of the American Mining Stock Exchange of New York.

MR. ALBERT FOX, of the Boston Post, made us a call on Wednesday. He is visiting Maine to make the acquaintance of mining men.

L. FOSTER MORSE and J. H. FAXON, JR., of Boston, have been visiting the mines of Sullivan and vicinity during the present week.

MR. FISKE, of Worcester, Mass., a graduate of the Mass. Institute of Technology, is about to open an assay office at Ellsworth.

MR. E. C. NICHOLS, President of the Oskkosh Mining Company, leaves the last of the week for Colorado on business for the company.

MR. W. A. PEARSON, of Virginia City, Nevada, arrived in Maine last week and has taken the Superintendency of the Bay View mine at Blue Hill.

MR. FROST, of the Boston Globe, has been on a visit to Blue Hill this week. He is soon to examine the mining regions of New Hampshire and Vermont.

MR. SIMON B. SMITH, of Boston, is to take charge of extensive mining operations at Blue Hill. MR. SMITH was for several years engaged in mining in Nevada.

Messrs. C. A. PARSONS and W. C. G. CARNEY, of the Deer Isle Silver Mining Company, last week visited Deer Isle and made us a pleasant call on their return.

E. DANA, JR., and T. O. WINSLOW have recently returned to Portland from a visit to the property of the Golden Circle Mining and Milling Company at East Sullivan.

B. O. CUTTER, Esq., of Blue Hill, left for Boston early this week. He is to make an examination of a Georgia mine for Boston parties and will return to Maine in a fortnight.

MR. T. H. MANSFIELD, of the Portland Mining Exchange, is visiting the Blue Hill mines. He will embrace Sullivan and Gouldsboro in his trip and will then visit Acton.

MR. VARDEN arrived in Portland on Saturday from England and will take the Superintendency of the Acton Consolidated mine. He is a thorough mining man and a graduate of Frieberg.

MR. E. J. KNIGHT has assumed the duties of assayer at the office of the Blue Hill Copper Mining and Smelting Company made vacant by the departure of MR. HILLS. MR. KNIGHT was a student of PROF. BARTLETT.

GEOLOGICAL REPORT,

Upon the Property of the Twin-Lead Copper Mining Co., of Blue Hill, By W. F. Stewart, Geologist.

Taking into account the inclement season of the year for out-door labor, there has been a prodigious amount of work performed upon the various mines at Blue Hill, since last autumn. Substantial shaft-houses, machine shops, ore rooms, hoisting gear, driving power and other mining appliances have been erected and placed upon the several locations. Shafts, drifts and other inclines have been vigorously driven into the rocks, so that the respective works have assumed the form and condition of legitimate mining properties. In addition to all this, the work of exploitation has revealed many important lithological and mineralogical characteristics of the ore channels which were not visible four months ago. At that time, the Douglass, Atlantic, Blue Hill and adjacent locations were all considered as being simply copper deposits and the prediction then made that increasing depth upon the lodes would show an increasing percentage of silver in the ores, was looked upon as a theoretical vagary. The work since performed at several points of excavation, clearly proves that the royal metal is augmenting in volume at every increasing fathom of vertical depth, and we are therefore sustained in the opinion that at the depth of a few hundreds of feet from the surface, the

great ore channels of the Blue Hill zone will become veritable argentiferous deposits.

The prediction which I ventured to make some months since that the ore veins at Blue Hill would rapidly widen as the work of excavation progressed, has been fully verified, and even at the shallow depths now attained, many of the ore chambers are notably expansive. This expansive characteristic of the quartz veins is doubly encouraging to the miner, for it not only warrants an increased volume to the ore deposits, but it also renders the gangue materials less obdurate, and therefore, more easy of extraction.

The most noteworthy lithological fact which has been revealed by recent exploitation in the Blue Hill mines, is the probable existence of a band of compact porphyritic rock flanking the side of the great ore channel. In the Saratoga address by Prof. C. H. Hitchcock, upon the "Mineral resources of Blue Hill, Maine," that gentleman hinted at the presence of this rock by saying that "there are in the Douglass lode, small cutting granite veins carrying feldspar like microcline."

At the depth of between sixty and seventy feet in the shaft of the Atlantic mine—which lies directly east of the Douglass works—this feldspathic material has assumed the form and texture of a tough, homogeneous stratum of birdseye porphyry. As this porphyritic rock has not a surface exposure at any point in the Blue Hill vein system, it was impossible to predict its existence in former delineations of this character. That it does exist, however, is now beyond question; but of its extent and possible position we can know very little until further developments are made along the lode. That this inexplicable porphyry band has exercised a marked influence upon the geological structure of the mineral bearing zone is already manifest. When the great Douglass lode was first opened, the ore vein, as well as the enclosing schist strata, held a uniform dip toward the south, of from 65 deg. to 70 deg. from the horizon. The work of excavation at the Douglass and Atlantic plainly indicates that the quartz vein is now rapidly approaching the vertical; while at the new shaft of the TWIN LEAD—situated some thousands of feet further toward the east, on the same great lode—the north wall is not only perpendicular, but at this juncture the base of the exposed wall has a palpable dip toward the north.

This sudden and unexpected change of inclination of the strata and quartz veins in the Blue Hill system, is a phenomenon of the profoundest significance and is therefore entitled to special consideration. It may be that the rapid approach to a vertical position has been occasioned by a mere local flexure in the strata, for we have observed many similar bendings in the schists and slates in other mining localities in Maine. At the opening of the Milton and Sullivan mines in the Sullivan district, the vein and enclosing schists had an average dip of 45 deg. At present the dip in both of those mines is from 68 deg. to 77 deg. and will probably soon reach the perpendicular. In fact such local flexures and changes of inclination are of frequent occurrence in Archæan strata, and were doubtless occasioned by the long secular distortions of the earth's solids in the azoic period. While this terrestrial shrinkage, or flexing hypothesis may, in a general way, account for the abrupt foldings of Archæan strata, yet, it is possible that the sudden change of dip at the Blue Hill mines, may have been occasioned in some way, by the porphyritic band referred to above. It may be that the porphyry mass extends no further in the system than at the point of exposure in the Atlantic shaft; but the palpably increasing degree of inclination at the Douglass and Atlantic excavations, and the positive vertical position of the TWIN LEAD, lends strength to the belief that the porphyry band has shaped the position of the entire lode. If further exploitation shall prove this to be true, then we shall find that the great ore channel is a veritable contact vein resting between the schistose strata and the porphyritic band.

It is needless to add that this hypothesis remains to be verified—in fact it is simply conjectural—but as the present position of the lode lends some plausibility to the theory, it is submitted for what it may be worth. In the event, however, that the great lode shall prove to be a genuine contact vein, we shall have the comforting assurance that ore bodies thus located have always been considered among the most desirable of mining properties. On the other hand, if the lode is environed wholly by the schistose rocks of the Blue Hill basin, it will, in that case, be a true fissure vein, resting conformably with the unbroken lamination of the system, and will be as profound in depth as the enclosing strata. Whatever view we may take of this remarkable mining zone, we shall find convincing proofs of its permanency and fertility. Its rapid increase in lateral diameter as depth is reached from the surface; the unfaulted condition of its ore channels for a great longitudinal distance; the astonishing mineralization of the entire system at every point of exposure, all confirm the assertion that the Blue Hill mines are practically inexhaustible.

TWIN-LEAD MINING COMPANY.

The mining property of the TWIN LEAD MINING COMPANY is situated at a point in the eastern border of a remarkable land-depression locally known as Blue Hill Basin—distant from the village and harbor of Blue Hill, one and a half miles. The topographical features of the region surrounding Blue Hill Basin may be described as follows: On the south-east, south, and south-west borders of the depression there rises a crescent-shaped ridge or range of granite hills, which forms the major half of an ellipsoidal amphitheatre. The north-western, northern, and north-eastern flanks of the ellipse, are bounded by a sort of elevated wall, or massive zone of tough argillaceous schist, and granular quartzite. Within these elevated surroundings, lies Blue Hill Basin, as well as the famous mineralized zone now under consideration. The area of this amphitheatre contains something less than 1000 acres of land the southern half of which is mainly covered by the waters of a pretty little lakelet known as Douglass pond.

It is evident that the range of granite hills lying south of the Basin, ante-dated the sedimentary deposits of the Archæan seas, and that they possibly formed a chain of small islands during that remote period. This massive granite barrier crops boldly out at many points in the south-eastern portions of Hancock County, and wherever it appears in the form of a hillock or ridge, its base is invariably surrounded by sedimentary rocks, such as schists, slates, conglomerates and metamorphic quartzites. That these sedimentary strata have been greatly flexed and tilted from their original horizontal position is apparent everywhere, but they still occupy their relative position at the base of the immovable granite hills, and thus reveal their sedimentary origin. Like most of the sedimentary fields in Eastern Maine, the floor of Blue Hill Basin is mainly composed of alternating strata, or tilted layers of argillaceous schists, clay slates, porphyritic bands and granular quartzites. Traversing these strata, and conformable with their laminations, are the mineralized quartz veins, or ore-channels of the Blue Hill system. There are evidences that three, and probably four, mineralized bearing quartz veins traverse the schist laminations—all lying parallel to each other, and having a uniform east and west trend. The dip, or inclination of these veins, as well as that of the enclosing strata, as stated at the commencement of this report, is very variable and ranges from 45° below the horizontal, to the perpendicular. The mineralization of the TWIN LEAD and of its enclosing schists, like every other exposed section of the great zone, is one of its most remarkable characteristics. The true ore-channel of the lode is a massive, well-defined quartz vein, which is permeated throughout by

variety of metallic elements such as Magnetic Iron, Zinc blende, Mispickel, Arsenical Nickel, Iron pyrites, Yellow Copper, Native Copper—in thin sheets—Chrysacolla, Antimonial Silver, Argentiferous Galena, and other undetermined substances. While these elements occur disseminated through the lode in every conceivable form of combination, it is not less remarkable that the enclosing schists are also frequently charged with the same materials. According to the accepted modern theory of mineral deposition by magneto-chemical action, the great ore channels received their supply of metals from the surrounding rocks, and before proceeding further with this delineation it may be well to refer briefly to the new philosophy.

Professor J. D. Dana maintains the chemical-solution hypothesis, and says: "The fissures occupied by veins are simply cavities penetrating the rocks more or less deeply, sometimes down to regions of great heat, but not to those of fused rock. During the metamorphic changes, such cavities, as soon as formed, would begin to receive mineral solutions or vapors from the rocks adjoining. The rocks may contain sufficient moisture to carry on this system of infiltration if there were no other source, and this moisture and any vapors present would move toward the open spaces. The mineral matters thus carried to the fissure would there become concentrated and commence the formation of the vein. These materials from the adjoining rock may be taken directly from it by simple solution, or be derived by a decomposition of some of its constituents."

Prof. J. LeConte holds to the same opinion and furnishes the following convincing example of the chemical process:—"The Steamboat Springs, near Virginia City, Nevada, come up through fissures in comparatively recent volcanic rock. The waters are strongly alkaline, and deposit silica in abundance. By this deposit the fissures are gradually filling up and forming veins; some fissures are now partially and some entirely filled. The ribbon-structure in some cases is perfect. Moreover, sulphides of several of the metals, viz: lead, mercury, copper and zinc, have been found in the quartz vein-stuff. Here, then, we have true metalliferous veins forming under our very eyes."

Von Cotta asserts that "There can be no doubt that all true ore beds were originally formed by chemical or mechanical precipitation from water. The formation of fissures, as well as their filling, is continuous. Metalliferous veins, which from their nature were formed at a great depth, could first attain the surface only by means of a great, and consequently very long continued decomposition and erosion of the rocks covering them."

Evan Hopkins maintains the magneto-chemical theory and says:—"A magnetic or galvanic current passing through solutions, if not the actual *modus operandi* of nature, is at all events capable of giving a rational solution, not merely of the mineral veins, but also of all the operations of nature disclosed by Geology."

Now if these very reliable authorities are correct in their conclusions, it must be admitted that the TWIN LEAD, as well as the entire series of Blue Hill ore channels, received their mineral contents from the neighboring and enclosing rocks. This fact may account for the remarkable mineralization of the schists which environ the ore veins. During the period of mineral precipitation in the deep fissures, by magneto-chemical action, the great schist bed was so completely saturated with atomic metals that the rock fractures were literally filled to overflowing, and the excess of metallic elements remained in the schists simply for lack of room in the ore channels. Whether this theory may be deemed puerile, or otherwise, the fact remains that the country rocks adjacent to the Blue Hill quartz veins—especially those flanking the Douglass lode—are nearly all strongly charged with the same varieties of ores found in the veins proper. In my judgment, this excessive mineralization of the wall

portends great fertility in the lodes at profound depth from the surface.

As before stated, the TWIN LEAD occupies an important position upon the great Douglass lode, at a point near the eastern border of Blue Hill Basin. The mine was named TWIN LEAD for the reason that two well defined ore-veins have been fully exposed upon the property by surface excavations. The most important of these is simply a portion of the great Douglass, or mother lode of the system, and is the one upon which the company's works are in active operation. After fully establishing the identity of the TWIN LEAD with the Douglass ore channel, the original locators of the property commenced the work of thorough exploitation, by making a deep open cut along the outcrop of the vein. This surface excavation was driven from east to west to the distance of 125 feet, thus fairly exposing the dip, trend, and character of the ore channel. The open cut varied in surface depth from ten to fifteen feet, by an average width of nine feet and the notch thus opened revealed a strong vein of fair grade copper ore and other minerals peculiar to the Douglass lode. Some of the copper ores obtained from the open cut yielded by assay very encouraging results, running as high as 13.07 per cent. Of course much of the surface material was of but little value, but the indications were satisfactory and finally led to the present substantial work upon the property. The present working shaft of the TWIN LEAD is situated centrally in the open cut just described, at a point 130 feet east of the west line of the company's land. Active work did not begin upon the property until nearly the middle of the past winter, but under the energetic and skillful management of the superintendent, Mr. Charles Duff—a gentleman who has had much practical mining experience in the state of Nevada—a capacious shaft has been driven to the vertical depth of 65 feet. The present dimensions of the shaft are seven by fourteen feet, but it will, when fully timbered, be divided into three compartments, two of which will be four and a half feet in the clear, and the other shaft, which will be used for a ladder-way, will be three by four and a half feet in the clear. In addition to the work done upon the shaft, Mr. Duff has—in spite of a New England winter—succeeded in erecting and enclosing a substantial and really elegant shaft-house which is 27 by 45 feet in breadth and length, and is lofty enough to admit a gallows frame 32 feet in height. Another building, in which it is intended to place a horse-power hoisting whim, will be erected immediately. The company proposes to drive the shaft to a depth of 100 feet by horse-power, after which the work will be performed by the most approved steam appliances.

As already intimated, the shaft at the TWIN LEAD has revealed the important fact that the north wall of the lode is actually perpendicular, except at a point near the bottom where the dip is slightly toward the north. This wall is composed of a tough schistose rock which is evidently the boundary line of mineralization for that side of the Douglass lode, for it does not appear to contain metals of any kind. The south wall of the TWIN LEAD has not yet been encountered by either the open-cut or the shaft, and as every part of the excavation is thoroughly mineralized it is reasonable to infer that the lode at this point will be fully as expansive as it is at the Douglass mine.

The predominating minerals at the present working of the TWIN LEAD are yellow and purple sulphurets of copper, iron pyrites, mispickel, arsenical nickel and some narrow bands of galena which contains a large percentage of silver. In fact much of the ores already taken from this mine, have proved exceptionally rich in both copper and silver, and there seems to be a steady increase of its fertility at every descending foot of excavation.

The TWIN LEAD MINING COMPANY owns 500 linear feet of the great Douglass lode, and as their lot has a lateral breadth from north to south of 2100 feet, they also own

all parallel veins which exist in the broad ore-bearing zone. It is known that two other well mineralized veins do exist upon the property, the most important of which lies only a few rods to the south of the mother lode. This vein has been exposed at several points and gives promise of being of great future value.

Upon the lands of the company there is a live forest which covers an area of 25 acres. This timber will be of great value for timbering purposes in the mine and for other uses about the premises. Near the Company's works there is an abundant supply of pure water—in very brief—the natural facilities for mine working upon the TWIN LEAD, are simply excellent. Indeed, the advantages, natural and artificial, which Maine possesses above her sister states and territories, for expeditious and profitable mine working, are strikingly palpable. In the inter-continental mining regions, the only method of obtaining supplies of machinery, stores and transportation of passengers is by the tedious and enormously expensive overland railways; while in this country there are the double advantages of cheap rates and rapid transit, by either railroad or water craft. In the far west, manual labor, fuel, house rent, building material and the actual necessities of life all cost more than five times what they are worth in Maine. Above all, the mines of New England are in the very heart of prosperous and refined communities where the great work of mining can be conducted as legitimately and as peacefully as farming, ship building, merchandising, or any other industrial avocation. There are innumerable reasons why the state of Maine should speedily take position as a great mining centre, and in my judgment the time is not far remote when enterprising capitalists will turn their attention to the golden possibilities of the Pine Tree Commonwealth.

Yours very sincerely,
W. F. STEWART.

BANGOR, ME., March 1, 1880.

Dips, Spurs and Angles.

MINERS AND SPRING.

We don't like to hear the bullfrog sing,
'Cause 'tis the surest sign of Spring,
And we know impervious work 'twill bring.
The hateful, green-faced, balmy Spring.

King Winter, pray cease lingering
In the coyish lap of sunny Spring;
She'd laugh with joy to see you swing
This radiant beauty, rosy Spring.

Old Winter, since you've taken wing
With pool, solo, chess and pokering,
We at early morn the pick must sling,
At dewy eve our foot-rags wring,
And dog-gon the blarsted, flowery Spring.

Young Spring, by jing, your not the thing,
Though covers give you welcoming.
You to the dogs I'd like to fling
And to Old Winter's skirts still cling,
And freeze you out, you tyrant, witching Spring.

—[*Idaho World*.]

No. 1. Special (delightedly)—“Well, I've got this As-saying down fine now, you bet; but there's one thing I don't understand; what it is that makes the lead in a crux, go to the bottom, and the other stuff come to the top” (!).—[*Acta Ochumbiana*.]

The Denver, Col. Tribune says: “The James G.

Blaine Gold and Silver Mining Company is the title of a new corporation which filed articles yesterday, with a capital of \$1,000,000, divided into 100,000 shares of \$10 each. The business of the company will be carried on in Lake County, and New York City is named as the place for the principal office.

There is a horse-shoe boom on the Comstock. The men carry horse-shoes in their vest pockets and the women nail them on the head boards of the bedsteads as talismans, in the hope that the Universal devotion to superstition may cause a return of prosperity to the Comstock and that they may all be lucky in stocks.—[*San Francisco Stock Report*.]

The Metal Worker says that a family living at Gernsbach, Germany, sustained injury to health by using American canned corned beef. It was consequently analyzed and found to be perfectly pure. The tin used was also quite pure, but the soldering contained fifty-six per cent of lead, hence a slight but distinctly traceable admixture of lead had penetrated into the outer layers of the canned meat, and this admixture was enough to produce serious injury to the stomach. The local Board of Health advised every one who wished to use meat to remove the outermost layers which had come in contact with the metal enclosure. Dealers were warned that should injury be caused to health the vender would be liable to prosecution.

Bidwell L. Stevens writes from North Vernon, Indiana. “What is the Monroe doctrine?” The Monroe doctrine, Bidwell, simply and explicitly declares that no foreign nation shall come over here and slide down our cellar door; that England and France shall not hang on our front gate to do their courting; that they can't bring over their own sirup pots and elder sprouts and make sugar in our maple grove; that Germany and Austria can't spot no bee tree in our woods; that Italy can't cut her firewood out of our hedgerows; that Russia can't spank her neighbor's children with our butter paddle. The Monroe doctrine simply means that we are the bull of the woods between the two oceans, and that the man who joins farms with us on either side had better not move the boundary fence until he talks to us about it, and that he can't sub-let a patch of his farm to any body until we are satisfied that the new tenant will make a good neighbor for us. That's about all there is of it.—[*Burlington Hawkeye*.]

Granite Rock.

Granite consists of a mechanical mixture of three kinds of rock, in variable quantities. These are, quartz, feldspar, and mica; quartz is also called silica, and is a compound of the element silicon with oxygen; the pure sand found on the seashore is this silica, disintegrated by the action of heat and cold, rain and frost, and finally, the action of the waves. It is the strongest ingredient in granite, and pure white sand is usually nothing but finely pulverized silica.

Feldspar is a compound of silica with alumina and potash or soda, and therefore its chemical name would be silicate of alumina and potash. It is less resistant than pure silica, and when disintegrated becomes so finely divided that it is entirely washed away by running water, and at places where the water becomes stagnant it is deposited at the bottom in the form of a layer of clay, colored more or less dark by impurities in it.

This clay is used for pottery and when pure and white is the kaolin or porcelain earth. Pipe clay is a white variety of the impure article.

Mica occurs in scales in the granite, and is a very complex compound, and at the same time very remarkable for its fire-resisting qualities. It is often found in large plates, which, being almost as transparent as glass, are used for windows in stoves and fire-places, for lamp chimneys, etc. It is a material similar to asbestos, with the difference that it is found in very thin plates, while asbestos is found as fine fibers.

Between the particles described, and which constitute granite, the microscope reveals, when it is cut into quite thin layers, very small spaces containing a little pure water which fills only a part of the vacant space, but by a heat of 680° Fah. will fill the space entirely. The vacancies sometimes constitute five per cent of the bulk of the rock, and there may be a thousand million of them in a cubic inch. The veins of granite are a proof of an inner hot nucleus under the solid crust, showing the position of old vents. In the Western States and Territories abundant evidence of these vents is found. The three great classes of rocks in the earth's crust forming the land may be divided into the igneous, which is the oldest; the sedimentary, such as clay, formed afterward by the action of water upon the material of the former; and the organic, to which belong chalk, fossil earth, coal, peat, humus, and all remains of organic nature in a fertile soil.—[*Scientific American*.

FOREIGN MINING NOTES.

No. 8.

BY F. L. BARTLETT, STATE ASSAYER.

THE COPPER MINES OF GREAT BRITAIN

number altogether something over 100, producing yearly about 5000 tons of copper metal. The average per cent. of yield is 6½. Of these copper mines, 65 are located in Cornwall.

I have given a geological description of that country in one of my preceding letters and it is hardly worth the trouble to repeat it. It is not known for a certainty how long copper has been mined in Cornwall but mining for copper can easily be dated back to the year 1600, and from the numerous rude implements found in and about the mines there is every reason to suppose that it dates back much farther; at any rate the business is not a new one in that part of the world.

Before iron was worked, copper implements were in use, which were hardened sufficiently to take a good cutting edge, and this great hardness led the ancient historians to believe that some secret process was used in tempering copper. During the Trojan war Homer tells us that the combatants used no other armor but bronze. Macrobius tells us that the priests of the Sabines were in the habit of cutting their hair with knives made of copper. The Greek and Roman sculptors executed fine works of art in porphyry, granite and other hard rocks by means of their copper instruments.

The metal of these instruments was submitted to analysis and the secret was at once revealed, the copper was alloyed with tin. Humboldt brought with him from Lima an ancient Peruvian chisel which possessed a fine cutting edge. It was found on analysis to contain 94 parts copper and 6 parts tin. This chisel was so well forged that its specific gravity, owing to the closeness of the particles, was 8.815. Since tin occurs with the copper at Cornwall it is supposed that the ancients combined the two for making their cutting implements.

THE BOTTALACK COPPER MINE

is one that possesses great historical interest. It is situated on a precipice near Land's End in the Parish of St. Just in Cornwall. The precipice is about 200 feet high jutting down into the water by a sharp declivity. I doubt if there is a mine in the world that possesses the grandeur of Botalack. There are immense caverns which penetrate far into the hard schist rocks, worn by the incessant action of the waves, which beat at all times with irresistible fury against this bold promontory. Shipwrecks innumerable have occurred here, and smuggling has been carried on here for more than a century. In former times, during storms, fires were built on these cliffs to lure ships on to destruction, so that plunder might be secured by the wreckers. Countless dark deeds have been committed here, and even to this day it serves as a resort for blacklegs and criminals.

The shafts of Botalack extend more than 3000 feet out under

the sea. In many places the miners have worked close up to the sea bottom and when storms occur the great boulders on the sea bottom grind and thump with a noise of thunder to the poor miner working below. Strange to say the leakage is slight and Botalack is one of the driest mines in Cornwall. The veins are all in schist and are about 4 feet wide. The ore is the usual variety of yellow pyrites mixed with peacock ore. The yield is not large but is very steady and the mine has been profitable many years. The ore is carefully sorted by women, being "spalled" down to about egg size. All the zinc is carefully picked out and thrown into a pile by itself. The sorted copper ores run about 10 per cent. The "addle" or rock left from the first picking is crushed and run through jigs until it comes down to a yield of about 12 per cent.

The copper bearing portion of this vein is all under the ocean, but a shaft is worked inland some 2000 feet which has reached depth enough so that it produces tin. Serpentine abounds in great masses amongst these cliffs and is used for making polished ornaments. Fluor spar, amethyst and many rare crystals can be found in the debris of the mines and I was able to make quite a fine collection of ores and minerals. In every direction are seen the ruins of abandoned mines round about St. Just and St. Ives. Only now and then one is being worked. Many of them are more than one hundred years old. Coming east from St. Just to Redruth one will see hundreds of old shafts standing out on the landscape with their huge chimneys and great pumping arms reared aloft, looking like so many ghosts. Gazing at them, one almost expects to see the huge walking beams move, but no, they are merely monuments of departed good times, dating back a century or more, and long will they stand, for being built of stone and brick in the most substantial manner the elements have little effect on them.

REDRUTH.

The country round about Redruth contains mines by the score, of copper and tin, and this is the most active mining district in Cornwall. The celebrated Dalcoath, Carn Brea, East Pool, West Tolgus, Wheal Uny and many other mines of more or less note are located here. Redruth is also the centre for stock transactions and ore sales. Every evening at Tabb's Hotel a hundred or more speculators in stocks are gathered for the purpose of buying and selling mining shares. I attended several of these sales. They are not conducted with any degree of system. If a man felt disposed to buy or sell he said so and possibly some one in the company might accept his terms. Brandy and sugar appeared to be the necessary articles to keep business brisk and I noticed that a man's transactions kept pace with the amount of brandy he consumed, and by the same proportion some of the sales were extremely large. These sales were often kept up till one o'clock in the morning. Tabb's dividends from the brandy must be ahead of any of the mines, but I will say this much for him his stock has not been watered.

WEST TOLGUS COPPER MINE.

Of the many copper mines in this vicinity I select West Tolgus as being the one most interesting since it strongly resembles the Blue Hill deposits. Work was commenced in "gossan," the *avant-courier* of the Cornish miner for copper. This gossan and the country rock is exactly like that of the Stover Hill mine in Blue Hill. No pay ore was reached until a depth of 300 feet was reached. The veins are from 2 to 4 feet wide and the proportion of ore to the gangue is about 1 to 10. Forty tons of rough ore are hoisted daily. I suppose the average per cent. would be about three in the rough state. The ore consists of the yellow pyrites mixed with peacock ore; not so much iron in it as in the Blue Hill ore but that is owing to the depth from which it is raised. There was much more in it at the same depth that the Blue Hill mines now are.

The ore is prepared for the market in the following manner. It is first broken by hammers into pieces about the size of paving stones and the worthless rock is thrown out. Women then break the ore down to fist size and sort out one grade that will yield about 10 per cent., the balance, which yields about 2½ per cent, is now sieved by hand to separate all that will go through half inch holes. The fine part goes to hand jigs operated by women. These hand jigs are nothing but box screens hung on a weighted lever over a trough of running water. The women fill these screens and jig them up and down in the water until the quartz and poor stuff rises to the top when it is scooped out and thrown away, the richer stuff at the bottom being saved. The coarse ore that did not pass the hand sieves goes to the rolls and is crushed fine enough to pass through screens of five holes to the inch. The ore then passes to Collurn jiggers which dress it up to 15 per cent.; the slimes go to buddles which save nearly all the ore.

The two Collurn jigs at West Tolgus take 30 tons of ore daily. The whole process of dressing the ores at this mine is cheap

but effective; the dressed ore contains about 15 per cent of copper and 30 per cent of gangue matter. West Tolgus is about a fair representative of all the copper mines in Cornwall so far as work is concerned. West Tolgus pays very well in Cornwall, but if labor cost the same as with us I think it would scarcely pay. I might describe many other copper mines that I visited but could add nothing of interest; I have already given the geology and mining peculiarities of Cornwall in previous letters. Some of these copper mines pay well, but the majority pay little better than the running expenses.

COST OF COPPER MINING IN CORNWALL.

The average cost of breaking and selecting the ore and sending to the surface after the mine is well developed is from \$1 to \$2 per ton. The cost of sinking shafts in soft clay slate, the first 120 feet is from \$2.00 to \$4.00 per foot; in hard clay slate, same depth from \$4.00 to \$6.00; in ordinary hard blasting rock, same depth \$7.00 to \$8.00, below this depth in blasting rock from \$8.00 to \$25.00; in cases of extreme hardness the cost per foot sometimes reaches as high as \$60.00. Levels or drifts are driven for \$3.00 to \$12.00 per foot, stoping costs only two-fifths as much, dressing the ore costs from 20 to 40 cents per ton. The average yield of the copper ores from the different foreign mines is as follows: Cornwall and Devon is 6 3-4 per cent, Cape ores 24 per cent, Russian ores 30 per cent, Spanish ores 2 1-2 per cent, Austrian ores 3 per cent, Mansfield ores of Germany 2 1-2 per cent, Falun ores, Sweden, 4 per cent, Portugal 3 per cent, Ireland 6 per cent, Newfoundland 7 1-2 per cent, Venezuela 11 per cent, Chili 10 to 30 per cent. The above percentages are made up from the total amount of ore worked in each country by either smelting or chemical processes. Of the number of tons smelted, the proportion between the different grades is about as follows: Ores from 2 1-2 to 4 per cent, ten, ores from 4 to 14 five, ores from 14 to 30 two.

From the facts given in this letter regarding foreign copper mines I think it is easy to see that the ore from the Blue Hill mines will compare favorably with many of them, and when the depth is attained common to most of the foreign copper mines we may expect something choice from Blue Hill.

LODES, LEADS AND VEINS.

QUEEN CITY.—The property is being rapidly prospected. Some distance to the eastward of the shaft some rich galena ore has been taken out.

NOROMBEA.—The shaft is down 32 feet and the ore increases in richness and quantity. The stock is a favorite in New York and quite an amount of treasury stock has been placed there. It is expected that an experienced mining man from the West will soon take the superintendency.

CONSOLIDATED HAMPDEN.—Sworn statement of the Treasurer of the Consolidated Hampden Silver Mining Company for the month ending April 10, 1880, being the pay day of the company.

The following is a true statement of the amount of stock and cash in the treasury of the Consolidated Hampden Silver Mining Company, this day:

Amount of cash on hand in possession,	\$8383.68
Debts due the Company guaranteed as good by me,	150.00
	<hr/> \$8533.68

Every outstanding bill is paid. Also 60,435 shares of stock in the treasury.

CHARLES E. HILL, Treasurer.

April 10, 1880.

Penobscot ss.

Subscribed and sworn to before me,

EZRA C. BRETT, Justice of the Peace.

The above is a fine showing for a company, especially when the advanced development of the mine is considered. The shaft is down about 120 feet and the green rock is becoming softer and thoroughly impregnated with silver ore.

LAWRENCE.—The shaft is now being substantially timbered. The recent report of Prof. Stewart created quite a boom in the stock.

HARRINGTON.—Work is suspended and both shafts are full of water. It is expected work will be resumed in a few days. There has been much trouble from the water flowing into the shafts.

GOULD.—Mr. J. W. Gould writes: "There has been a new vein discovered on the Gould mine, of St. Albans, showing rich silver ore on the surface. The company propose to put a crew of men to work this week."

COMSTOCK.—W. L. Thompson, a mining engineer and assayer, writes to the Boston Globe under date of April 10th: "But very little work comparatively, has as yet, been done upon the mine. It would be, therefore, very difficult for me to give you any very extensive or definite opinion on the subject. I know, however, that the mine is located in a series of rocks that are famous for containing silver and gold-bearing veins. I examined the gangue of the vein very carefully. It is composed of mineralized black and white quartzite, pretty heavily charged with sulphuret of iron, some galena, and, running through the black quartzite especially, are small veins or streaks of carbonate of lime. I regard it as a good rock to carry silver and gold, both. The vein seems well defined and pretty wide. I did not measure it, but it could not be less than ten feet. The wall rocks are argillaceous sandstone. The vein must be persistent in length, for I noticed that it cropped out very prominently both to the northeast and southwest of your property. The general direction of the vein is northeast and southwest, and its dip about 62 degrees. I know nothing of the ores, not having assayed them, but they seemed to me as if they ought to carry considerable silver, if not gold also. I liked the appearance of the black quartzite as well as the streaks of carbonate of lime that run through it. There is no *a priori* reason why your mine should not prove valuable when properly developed. I have no hesitation in advising you to spend a reasonable amount of money to develop your property. I think you will find that you have got a paying mine."

EASTERN.—The stockholders of the Great Eastern Silver Mining Company at the recent meeting voted to change the name to Eastern Silver Mining Company. The property is now being developed.

FORT KNOX.—Steam machinery has been ordered and will be running in a few weeks.

BLUE HILL.—The diamond drill is now being worked. Workmen are drifting on two veins from Shaft No. 1. Various rumors have been current for some time that the mine is to be purchased by Lake Superior parties. Several gentlemen largely interested in the mines of the Lake Superior region have recently visited the Blue Hill mine and we are strongly led to believe that the above report has foundation in fact.

ATLANTIC.—Supt. Le Prohon reports that last Friday the tunnel was 20 feet in the vein.

DOUGLASS.—Splendid ore is being taken out in large quantities. The frame of the new mill is up.

TWIN LEAD.—The shaft has reached a depth of 82 feet. The work is progressing expeditiously. The exhaustive report by Prof. W. F. Stewart on the property will be found elsewhere in this issue.

YOUNG HECLA.—Supt. Duff under date of April 11th reports: "Since my last report, have been somewhat delayed in sinking shaft, the cause being that a portion of our force left in company with those from Twin Lead and I have found great difficulty in replacing them with good men. Still we have made four feet making total depth of shaft forty feet. We still follow foot wall on the north side of shaft on its perpendicular dip with fine ore in sight to the south or hanging wall. I trust we shall have no further interruption in or about the mine."

BLUE HILL CENTRAL.—The sinking of the shaft has commenced. The ledge does not crop out and the shaft is now being sunk through hard gravel. It is expected that the ledge will soon be reached.

BAY VIEW.—A good showing is being made. Mr. Pearson, a Nevada miner, has taken charge of the work.

TRIO.—The property has been thoroughly prospected. A

shaft is to be at once sunk and Mr. S. B. Smith, of Boston, will have charge of the work.

JERSEY.—The Jersey Copper Mining Company was organized at the Mining Exchange in Blue Hill, Apr. 10th, with a capital of \$500,000 divided into 100,000 shares of \$5 each. The following officers were chosen: Eugene M. Hersey, of Bangor, President; P. G. Merrill, Blue Hill, Vice President; Isaac Merrill, Blue Hill, Treasurer; H. A. Tripp, Blue Hill, Secretary; E. M. Hersey, Bangor, Wm. D. Swazey, Bucksport, Wm. H. Darling, P. G. Merrill, Geo. W. C. Clay, Jos. H. Johnson, J. E. Dutton, Blue Hill, Henry W. Sargent, of Sargentville, —, of Orland, Directors. The mine is looking well. The timber for the shaft is out and the vein is still improving. The company propose to get an experienced Western miner for Supt.

SILVER REEF.—The shaft has reached a depth of 12 feet. Mr. S. B. Smith has assumed the superintendency and the work of development will now rapidly progress.

REVERE.—Work on the Revere commenced on Monday of last week and by Friday night last the shaft was down twelve feet. The Superintendent, Wilkie Darling, is pushing the work of development.

LADY ELGIN.—The shaft is now down about 32 feet. It is probable that Mr. Pearson, of the Bay View, will take charge of the work.

EASTERN STAR.—Mr. A. F. Smith has tendered his resignation as Secretary, and Mr. Gordon Stanford, of Bangor, has been elected to the position.

ROBERT EMMETT.—This mine has a most romantic location. The works are situated on the extreme point of a bold promontory or headland, of several acres in extent, at the head of Egypt Bay in the town of Franklin. The whole peninsular is a mass of thoroughly mineralized rock, and handsome copper sulphurets may be chipped with a hammer from almost any part of it. A piece was broken from a boulder which had fallen from the top of the ledge to the beach below, and sent to Prof. Sharples for assay. His certificate shows 2.62 per cent. copper. By examining the sides of the ledge carefully native copper may be found in many places. Through the centre of this promontory runs a well-defined quartz-vein about 18 inches wide on the surface. It is this which the shaft is expected to cut at the depth of 100 feet. It is now 48 feet down, partially timbered, and has cut through several stringers of very handsome quartz containing considerable mineral. Indeed much of the country-rock which has been removed is fair ore. Mr. P. Mullan is Superintendent and Mr. Guy Mullan, Foreman. They take great pleasure in showing their property, and indeed they have much reason to be proud of it.

FRANKLIN.—Although little has been done on this property in the way of development, if surface indications prove anything this must become one of the most valuable mining properties in the State. The vein which shows itself here has been traced a long distance, is from 8 to 9 feet in width, and thoroughly mineralized from wall to wall with silver-bearing sulphurets. Work has been in progress but a few days and the shaft has reached but a slight depth, but under the able supervision of Mr. Marcus Mullan, the developments will be pushed rapidly forward.

SULLIVAN.—This being the pioneer mine of this section, its progress is watched by the general public with perhaps a greater interest than is attached to any other one of the Maine mines. It is gratifying to know that both in the improvements at the works and the development of the mine it is well sustaining its reputation as a most valuable mining property. At the old, or No. 1 shaft, more than 400 feet of drifts have been run—300 feet at the 65 foot level and 120 feet at the 130 foot level—and upwards of 15,000 tons of ore exposed, in readiness to be removed as soon as called for by the completion of the stamp mill. At shaft No. 2, a new and spacious shaft house

40x29 has been erected, and the vertical shaft has been driven to a depth of 66 feet and timbered in double compartments for 49 feet. The hoisting apparatus consists of a large and substantial gallow's-frame and a Copeland & Bacon engine capable of lifting 100 tons daily to a distance of 500 feet. The other machinery includes a large Clayton air compressor and three Johnson drills which are doing excellent work. A new boiler is being placed in position which with the large one at present in use will be amply sufficient to drive all the machinery of the mine. Water brought through pipes from a never-failing brook 1000 feet distant furnishes an abundant supply for the works of both the Sullivan and Waukeag. A stamp mill is to be immediately erected. The ground has already been graded for the building and the machinery is being manufactured by Messrs. Beckett & McDowell at Arlington, N. J. Upwards of 1000 tons of ore are on the dump. Rapid progress is being made in No. 2 shaft which is intended to reach a depth of 150 feet before cross cutting to the vein. Under the efficient management of Supt. Tilden everything is arranged systematically and the mine is being worked in true mining fashion.

WAUKEAG.—The vertical shaft is down 146 feet and the workmen are engaged in cross-cutting for the vein which is expected to be reached in about four weeks.

FANEUIL HALL AND SULLIVAN.—The Faneuil Hall and Sullivan Mining Company was organized some time since with a capital of \$500,000, divided into 100,000 shares of a par value of \$5 each. The officers are: President, Charles H. North; Secretary, L. A. Emery; Treasurer, F. W. Morrill; Directors, Charles H. North, Morris B. Boynton, Henry Farnham, F. W. Morrill, F. G. Tuttle, and Alonzo A. Hayward. The Board of Directors embraces some of the leading business men of Boston. The property of the company is situated at West Sullivan and adjoins the famous Waukeag. The company have a lease from the owners for a term of 99 years of between three and four acres of land, giving an ample area of ground for working purposes and controlling between 600 and 700 feet of ore vein. Mr. A. A. Hayward, the well-known hotel proprietor at Bar Harbor, is the Superintendent and he is at the present time ordering the lumber etc., preparing for active work.

MILTON.—This is the largest and most extensive mining establishment east of the Comstock, and we are assured by the Superintendent, nothing more substantial and complete is to be found on the Pacific coast. A description of the works has already been given in these columns, and space at present forbids more than a brief notice of the recent additions and improvements. Shaft No. 1 has reached a depth of 120 feet and shaft No. 2, 100 feet. Both are substantially timbered in double compartments, and both are to be driven to 150 feet before making the first station. Shaft No. 2, which followed the vein for some distance, left it at a depth of 90 feet, and at that point some wonderfully rich and handsome specimens of telluride of silver were taken out. A 60 horse-power boiler at present drives all the machinery of the mine, but a new one of a similar capacity has been ordered and has already been shipped. A large Burleigh air compressor is on the way and also three power drills and other machinery. The air tank is of superior workmanship and is considered the finest ever constructed, being the one exhibited at the Centennial Exhibition by the Putnam Machine Company, of Fitchburg, Mass. A Little Giant engine of 15 horse-power has just been put in No. 2 shaft house, for the purpose of driving the lathes, circular saws and other machinery in the repair and carpenter shops, an elevator for hoisting tools, lumber, etc., and also an Excelsior amalgamating pan, and Alden crusher and pulverizer for testing and sampling ores. At No. 2 shaft is an immense gallow's-frame built in the most substantial manner possible, and the hoisting is done by a powerful Copeland & Bacon engine. At No. 1 shaft, model hoisting works are in operation, a gallow's-frame of a new and improved pattern, and a 35 horse-power Kendall &

Roberts hoisting engine. Supt. Shoenbar—to whose ability and experience the completeness of all the arrangements is due—has devised a new kind of cage for hoisting cars or men, which deserves more than a passing notice and we hope soon to lay before our readers an illustration and a full description of the same, as it is the only thing of the kind in the country, and reflects much credit upon the inventor. Hitherto it has always been considered necessary in deep shafts for the car or cage to run in grooves or at least to have some method of guiding it to prevent swinging to and fro. During the process of sinking this is almost impossible, as if the shaft is timbered near the bottom, the blasts are likely to destroy the timbers as fast as they can be replaced. This cage completely obviates this difficulty, as the construction is so perfect and it is balanced or poised so nicely that it may be dropped to or raised from any depth—no matter how loaded—without swerving from its course more than a hair's breadth.

Supt. Shoenbar also has in operation an improved water tank for removing water from the mine which does away entirely with any necessity for pumping. A large water tank with a capacity of 12,000 gallons has recently been built, which is a reserve to be used in case of fire, or of accident to the pipes through which the water supply is obtained. A steam bath room and also a drying and sitting room for the workmen is being fitted up in connection with No. 2 shaft-house. Every department of the mine is under first-class management, and it is in every respect a model establishment. The chief-engineer, Mr. C. L. Walker, is a gentleman of extensive experience in California and Nevada, and was formerly connected with the Putnam Machine Works, having charge of the Barleigh drills at the Hoosac Tunnel.

SULLIVAN FALLS.—The shaft, now 30 feet deep, has shown solid mineral all the way down, and day and night crews continue to push the work as rapidly as possible. A substantial shaft house has been erected. W. H. Clapham of Sullivan is Superintendent.

MILLBROOK.—Everything at the Millbrook is in fine working order and rapid progress is being made in the shaft, which is now 78 feet down, and some distance below the vein. Drifting will commence at about 100 feet. A new blacksmith shop and other out-buildings will soon be erected.

ASHLEY.—The shaft is down 106 feet and drifting will commence as soon as timbering is completed.

BEACON HILL.—Mr. Frank Worcester Jr., of Sullivan has been sinking a shaft upon this property, disclosing a vein about 18 inches in width, carrying argentiferous galena, copper and zinc. It has reached a depth of 40 feet and is partially timbered.

MORANCY.—Work is progressing at the Morancy. The shaft has been sunk vertically to a depth of 18 feet, where the vein has dipped sharply to the eastward at an angle of about 50°. A sump has been made at the bottom of the pit to receive the surface water and it is proposed to follow down on the incline, where the vein is rapidly widening out and is highly mineralized.

GOULDSBORO.—This noted mine is showing ore in quantity which experts generally say is not as yet equalled in this State. The vein is now fully eight feet thick, all of which is "pay ore." The management of the "Gouldsboro" is well known to be among the most conservative and cautious among the many well managed mines. No steps have been taken to advance the price of the stock of the company beyond its real merit, as shown by its development. Its stock started at one dollar per share and has advanced slowly to from three to four as quoted in Boston for small lots, but on inquiring at the company's office we find that "they have no stock to sell, and that they know of none that can be bought at less than six dollars, and that forty thousand dollars in cash have been refused for ten thousand shares within a few weeks."

The concentrating works now being erected within 300 feet of the company's shaft house, will enable the mineral from this mine to be separated and put in marketable condition as fast as mined, and the management confidently expect to pay dividends during the current year. A new shaft house forty-eight by eighty feet is being erected which will be furnished with a Kendall & Roberts engine and hoister, Knowles pump, air compressors for working drills, and in fact everything necessary to render the mine capable of raising twenty-five tons of ore per day from about June first. The Barleigh drill will at once be put to work in the open cut, and the ore removed as far as the shaft, making a station at this point, where the water pumped from the mine will be removed, and which will also serve as a reserve station for hoisting during the progress of any necessary repairs upon the machinery above. With such a prospect it is not to be wondered at that those who can hold their interests refuse all offers for the stock.

WEST BAY.—This mine which is in close proximity to the now famous Gouldsboro, and on the same vein, has in the slight depth attained made a very remarkable showing, the ore already removed exceeding in richness anything yet discovered in the district. The shaft is down about 12 feet and a commodious shaft house will be immediately erected.

HOME.—The shaft of the Home is down 74 feet and the prospects are very promising. The vein is four feet in width, two feet of which constitutes the "pay-streak" and the remaining two feet consist of handsome white quartz thickly sprinkled with blotches of galena and copper sulphurets.

WEST and SOWLE.—The shaft, which was started on the shore, has reached a depth of 63 feet, and the workmen are now engaged in drifting out under the Bay on the vein. Some very good ore has been disclosed.

CHERRYFIELD.—At a meeting of the Directors held at Cherryfield March 31, it was voted to immediately replace the present shaft house by a new one 40x80 feet in size, and put in a Kendall & Roberts hoisting engine, forty horse-power boiler, Knowles pump, air compressor and two Ingersoll drills. The solid vein of ore continues about two feet in width, and from assays by Supt. Leonard and Prof. Richards, the Directors are satisfied the average yield will be about 50 oz. silver to the ton and 40 per cent zinc.

BAILEYVILLE.—The Baileyville Mining Company was organized at the office of Hon. L. G. Downes in Calais, April 10th, by the election of Hon. L. G. Downes, President; E. S. Laugh-ton, Treasurer; G. A. Curran, Secretary; Directors, Hon. L. G. Downes, Geo. W. King, W. A. Murchie, F. T. Waite, all of Calais, S. D. Leavitt of Eastport. Capital stock \$500,000 in 100,000 \$5 shares. The mine, to which allusion has already been made, is situated in Baileyville, Me., on the line of the St. Croix and Penobscot R. R. It is the purpose of the company to proceed at once to develop their property.

DICK AND WILLIAMSON.—Ore richer than any yet found has been struck within a few days in the Dick & Williamson mine, of which S. B. Pool, of Calais, is President. Holders of this stock have no disposition to sell. The prospects of the mine, good from the start, have been rapidly improving.—[Calais Times.

DEER ISLE.—Work is progressing favorably. It is estimated that there is now enough ore on the dump to pay all the expenses up to the present time.

DEER ISLE, JR.—A shaft is being sunk under the charge of Gardner Floyd and a depth of 20 feet has been reached.

PORTLAND DEER ISLE.—In our last issue we commented under the head of "Misleading Statements" upon the claims that mines were on certain established lodes and veins and referred to an item, given publicly in a Boston paper, stating in substance that the Deer Isle silver vein had been found on the Knights farm at Deer Isle and that the property would be

worked by the Portland Deer Isle Mining Company. In regard to the above we stated that the Portland Deer Isle Company's property was not on the Deer Isle vein and further said: "It does not seem just the fair thing for any mine which has succeeded in making a fair showing and acquired the confidence of capitalists to be compelled to bolster up other properties of doubtful or even prospective value."

We have since the publication of the above received correspondence from a gentleman largely interested in the Portland Deer Isle Company who informs us that they are not responsible for the item given publication through the Boston press. Our correspondent writes: "We do not claim that our vein is the Deer Isle vein. We have a rich piece of property and as the future will show, it is not necessary for us to claim to be on the extension of the Deer Isle Company's vein. What we do claim is that there are several veins running parallel with and on a general line with the Deer Isle Co's vein—that is—of about the same trend or points of compass and that this is one of them. We have had our property inspected by S. M. Carleton, recently of Leadville, and Mr. George Simonton, recently of the Black Hills, and both pronounce the showings as very fine. We are ready to have the property stand on its own merits."

It was far from our intention to convey the impression that the property of the Portland Deer Isle Company is not a valuable one. We have never made an examination of the property and we have therefore no personal knowledge of the same. We did know, however, that it was not on the Deer Isle vein and we intended that the public should not be misinformed. We are glad to learn that the company is not responsible for the incorrect statement.

OWL'S HEAD.—The shaft is now down 25 1-2 feet. Some ore showing very well in silver has been taken from the shaft.

ACTON.—On Saturday last a very rich body of ore was struck 30 feet below the 65 foot level.

GREGORY.—The Gregory Copper Mining Company was organized in Rockland Saturday, and the following officers chosen: President, Hanson Gregory, Jr.; Directors, Hanson Gregory, Jr., S. M. Bird, A. F. Ames, George Gregory, Maynard Sumner, Henry Spaulding, J. F. Merrill; Secretary and Treasurer, H. T. Beverage. The mine is at Lisbon, N. H.—[*Rockland Opinion*.]

Nuggets.

St. Albans and Corinna promise to be rich mining regions.

An earthquake was experienced in Aroostook county last week.

V. Darling and Dr. Knowles, of Bangor, have bonded an extensive tract in Castine.

A mining property at Enfield has been examined this week by Prof. F. L. Bartlett.

As a result of the mining excitement in Corinna, a new hotel is talked of in that town.

A company is soon to be formed in Farmington, N. H. to work a gold mine in Nova Scotia.

Stocks have ruled low for the past few days. The stock market in the leading centres is much depressed.

A boarding house is to be built at Blue Hill Neck for the workmen at the Revere Silver Mining Company.

Mr. Knight has sold Viola Park at Westport, so it is reported, to a gold mining company for \$50,000.—[*Portland Press*.]

Much interest is taken in mining matters in Farmington, N. H., and there is talk of opening a mining exchange there.

Mr. Fiske, the proprietor of the popular Copper & Gold Exchange at Blue Hill, is to at once build an addition 40 feet in length.

The Waukeag House, the popular summer hotel at Sullivan, will be opened by Mr. Stillman F. White, the proprietor, about May 1st.

Some very fine crystals taken from the Penobscot mine by Rev. Mr. Annear are on exhibition at the Maine Mining Exchange in this city.

The MAINE MINING JOURNAL, published at Bangor, is an able exponent of the mining interests of its State as well as of mining matters generally.—[*N. Y. Daily Graphic*.]

We are in receipt of the first copy of the *Sullivan Weekly Bulletin*, published at West Sullivan, Hancock County, Maine. The paper is largely devoted to mining news, and contains much matter of interest relating to the mines of that section. It is a very neat publication and reflects credit upon its publishers.

Personal.

MR. THOMAS CAHILL, of Nevada, is fitting up an elaborate assay office at the Maine Mining Exchange in this city. MR. CAHILL was for five years connected with the U. S. Mint at San Francisco, and is recommended very highly as an assayer by Prof. STEWART.

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 14, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
ACTON	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
ASHLEY	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
ANDROSS	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
ATHLETIC	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
BLUE HILL	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
CON HAMPTON	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
CORINNA	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
CHERRYFIELD	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
DEAR ISLE	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
DUNCOAN	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
ELLSWORTH	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
FAVORITE	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
FOREST CITY	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
FORT KNOX	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
GALUSBOROUGH	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
GRANT	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
HARRINGTON	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
HOMER	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
MILTON	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
MINERAL HILL	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
OWL'S HEAD	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
PEDD MENAN	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
PORTLAND ACTON	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
ROBERT KIMMETT	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
STOVER HILL	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
SULLIVAN	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
TWIN LEAD	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
WAUKEAG	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75
YOUNG HECLA	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75	14	1 75

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 14, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Aztac	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Atlantic L. S.	20	21 1/2	20	21 1/2	20	21 1/2	20	21 1/2	20	21 1/2	20	21 1/2
Alouez	16	16 1/2	16	16 1/2	16	16 1/2	16	16 1/2	16	16 1/2	16	16 1/2
B. Antimony	24 1/2	25 1/2	24	25 1/2	24	25 1/2	24	25 1/2	24	25 1/2	24	25 1/2
Blue Hill Copper	9	9 1/2	9	9 1/2	9	9 1/2	9	9 1/2	9	9 1/2	9	9 1/2
Calumet & Hecla	240	241 1/2	248	250	248	250	248	250	248	250	248	250
Central	12 1/2	12 3/4	13	12	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2	12
Copper Falls	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Duncan Silver	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Franklin	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Harshaw	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Huron	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Mesonard	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
National	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Osceola	40	40	40	40	40	40	40	40	40	40	40	40
Pewabic (new stock)	24 1/2	24 3/4	24 1/2	24 3/4	24 1/2	24 3/4	24 1/2	24 3/4	24 1/2	24 3/4	24 1/2	24 3/4
Phoenix	31	31 1/2	31	31 1/2	31	31 1/2	31	31 1/2	31	31 1/2	31	31 1/2
Quincy	6	6 1/2	6	6 1/2	6	6 1/2	6	6 1/2	6	6 1/2	6	6 1/2
Ridge	18	19	18	19	18	19	18	19	18	19	18	19
Silver Islet	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2
Star	12	12	12	12	12	12	12	12	12	12	12	12
Sullivan	10 1/2	10 3/4	9	11	9	11	9	11	9	11	9	11

ACTON SILVER MINING COMPANY, ACTON,
Me. Incorporated, Oct., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. George Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.

IVORY LIBBEY, Supt.

ATLANTIC COPPER MINING CO, BLUE HILL,
Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor. Treasurer, Wm. P. Hubbard, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, Bangor; C. F. Bragg, Bangor; C. P. Dixon, N. Y.; C. F. Bragg, Bangor; H. C. Martin, Brunswick; David H. Smith, Winterport; Capt. John Humphrey, Boston.

E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING COMPANY,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec, 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors—Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange St. Portland Me.

E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING COMPANY,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 30,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors—J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.

WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each; Treasury Fund, 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors—John Bird, George H. Cleveland, Moses Webster, S. E. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.

CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7½ Lisbon St., Lewiston.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1873.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington. Treasurer and Secretary, E. C. Smart, Bangor. Directors—J. L. Hodsdon, Bangor; Geo. Brooks, Orrington; E. C. Smart, Bangor; H. P. Blood, Bangor; Geo. R. Smith, Hallowell.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston. Treasurer, Thomas H. Lord. Secretary, B. O. Cutter, Blue Hill. Directors—S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manering Emery.

B. O. CUTTER, Supt.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden. Treasurer and Secretary, Hon S. L. Milliken, Belfast. Manager, A. I. Brown, Blue Hill. Directors—D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.

A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson of Bangor; Vice-President, John S. Jenness of Bangor; Treasurer, Edward B. Nealley of Bangor; Secretary, John R. Mason of Bangor; Directors—Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.

BOSTON ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Dennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

BULLION MINING AND MILLING COMPY
Acton, Me.
Capital, \$150,000. In 15,000 shares; par value \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris. Portland.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares, \$10 each Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield. Treasurer, Judge J. A. Milliken, Cherryfield. Secretary, Hon. Wm. Freeman, Cherryfield. Manager, Francis Worcester, Ellsworth. Directors—William Freeman, Samuel A. Campbell, James A. Milliken, W. A. LEONARD, Supt.

CONSOLIDATED HAMPTON SILVER MINING CO., Hampton, Me. Incorporated by special act, February, 1880.

Capital, \$1,000,000; Shares, \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Laughton, Bangor. Vice-President, Wm. H. Strickland, Bangor. Treasurer, C. E. Hill, Bangor. Secretary, C. F. Bragg, Bangor. Directors—F. M. Laughton, Wm. H. Strickland, Geo. A. Wadley, C. F. Bragg, F. W. Hill, J. P. Tucker.

CHARLES DUNTON, Supt.

COMSTOCK SILVER MINING COMPANY, OF
MAINE, Bucksport, Me. Incorporated, February, 1880.

Capital, \$500,000; Shares \$2.00 each.
Office, 40 Water St., Room 46, Boston, Mass.
President, Hon. William Wirt Warren, Boston; Treasurer, Oscar E. Doolittle, Boston; Secretary, R. B. Henchman, Bucksport; Directors—Hon. William Wirt Warren, Boston; Hon. Samuel B. Noyes, Boston; George F. Ropes, Salem; William Read, Boston; Samuel J. Noble, Boston; Dr. S. E. Thayer, Boston; George A. Morse, Boston.
JOHN ROBERTS, Mine Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 Shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Horrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland. Treasurer, Willard C. G. Carney, Portland. Secretary, Geo. F. Gould, Portland. Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland. Treasurer, Stephen Jennings, Bangor. Secretary, H. B. Darling, Blue Hill. Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Wm. H. Darling, Bangor. Treasurer, Stephen G. Downs, Bangor. Secretary, Dr. W. K. Knowles, Bangor. Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Huckins, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING COMPANY,
Acton, Me. Incorporated, Jan., 1879.
Capital, \$500,000; Shares, \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors—I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.
W. A. GOULD, Supt.

DEERING-ACTON SILVER MINING COMPANY,
Acton, Me.
Capital, \$500,000 in 100,000 shares; par value, \$5 Offices, 33 Exchange Street, Portland, Me., and Sears building, Boston.
President, J. M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors—Ellislaet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.

EAST BLUE HILL GOLD & SILVER MINING CO.
East Blue Hill, Me. Incorporated, Dec, 1873.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport; Directors—James Emery, Dr. Geo. H. Emerson, Geo. W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EDGEWATER SILVER MINING COMPANY,
Sedgwick, Me. Incorporated, June, 1877; re-organized, Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors—Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.
Office of Company, 22 Exchange St., Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.

ELDORADO SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fisk, Portland; Secretary, N. S. Gardiner, Portland; Directors—J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fisk, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EAST SURRY MINING COMPANY,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.

President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors—Chas. H. Varnham and George W. Hutchings, East Surry; Naham Hinkley, Surry; Lewis Friend and Calvin G. Peck, Ellsworth; Supt., Isaac H. Grant, East Surry.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.

AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.

President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.

HIRAM S. BARTLETT, Supt.

EASTERN STAR SILVER MINING COMPANY,
Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, A. F. Smith, Bangor; Directors—A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Charles H. Dennett.

FARNHAM SILVER MINING COMPANY,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 40,000 Shares.

President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors—E. H. Nealley, Monroe; Geo. F. Harriman, Belfast; M. Chase, Brooks; J. H. Gordon, Brooks; F. F. Favor, Boston; John Atwood, Boston; E. C. Arey, Winterport.

CHAS. E. LANE, Brooks, Supt.

D. N. EWELL, Frankfort, Transfer Agent.

FOREST CITY SILVER MINING COMPANY,
Acton, Me. Incorporated, Dec, 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Reddon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors—Hon. James Bailey, John E. Palmer, Chas. M. Rice, Clark H. Barker, James E. Sturgis, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill; Secretary, Henry I. Billings, Blue Hill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, E. M. Hersey, I. S. Emery.

FORT KNOX SILVER MINING COMPANY,
Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer,
T. B. Grant, Prospect; Secretary, John F. Libbey,
Prospect; Directors—Wm. H. Fogler, T. B. Grant,
A. R. Fellows, B. S. Grant, James H. Douglass.
A. R. FELLOWS, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward
Mullan; Secretary, E. E. Brady; Directors—E. H.
Greeley, N. P. Doe, Edward Mullan, Richard Laf-
lan, Jeremiah Wooster.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury
Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth.
Treasurer, Charles C. Burrill, Ellsworth. Secre-
tary, J. B. Redman, Ellsworth. Directors—A. P.
Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

GARDNER MOUNTAIN COPPER MINING CO,
Littleton, N. H. Incorporated under laws of
Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, Shares.
President, Samuel Atwood, Winterport, Me.;
Treasurer, Henry T. Sanborn, Winterport, Me.;
Secretary, Water Haley, Winterport, Me.; Direc-
tors, Samuel Atwood, Hanson Gregory, Jr., E. C.
Arey, Walter Haley, Henry T. Sanborn, John At-
wood, G. B. Putnam.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer,
Geo. W. Fiske, Ellsworth; Secretary, E. K. Hop-
kins, Ellsworth; Directors—Henry M. Hall, Geo.
W. Fiske, E. K. Hopkins, Robert Mullan, E. P.
Reed.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable;
Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer,
Geo. A. Gibson of Boston; Secretary, E. G. John-
ston of Sullivan; Directors—O. H. Perry, G. A. Gib-
son, E. G. Johnston and Geo. W. Pettengill.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J.
Morrison; Secretary, Geo. W. Fiske; Directors—
Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stu-
art, J. T. Crippen, S. J. Morrison.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-
President, Ezra L. Sterns, Bangor; Treasurer, C.
P. Wiggin, Bangor; Secretary, E. M. Hersey, Ban-
gor. Directors—John S. Jenness, James Little-
field, James Tobin, James A. Davis, Hon. H. C.
Martin. Wm. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY
Hamden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-
President, John S. Jenness, Bangor; Treasurer, W.
J. Webb, Bangor; Secretary, W. Lee Johnson, Ban-
gor; Directors—Wm. H. Darling, John S. Jenness,
Hiram B. Williams, W. Oscar Arnold, Jacob Stern,
Manley G. Trask, Geo. W. Sweetser.

LEBANON ACTON SILVER MINING COMPY,
Acton, York County, Me. Incorporated, Feb.,
1880.
Office—29 Exchange, corner Milk Street, Port-
land, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1
each; Stock unassessable. 100,000 shares in the
Treasury.
President, Hugh J. Chisholm; Treasurer, A. P.
Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY.
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund
50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer,
Porter Nealey, Bangor; Secretary, E. C. Pearson,
Bangor; Directors—Wm. T. Pearson, Porter Nea-
ley, Edgar C. Pearson, Emery G. Ingalls, of Ban-
gor; Alvin Roddick, of Boston; Arthur S. Newnam,
of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treas-
urer, Dr. L. W. Hodgkins, Ellsworth; Directors—
H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr.
K. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treas-
urer, Thomas Dalby, Boston. Secretary, Sidney
E. Horne, Sullivan. Directors—L. F. Morse,
Sidney E. Horne, James R. Grose, Thomas Dalby,
Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office,
4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Sec-
retary, W. O. Arnold of Bangor, Me.; Treasurer,
G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value
\$5 each. Unassessable. J. SHOENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treas-
urer, I. S. Johnson, Bangor; Secretary, A. W.
Gushman, Ellsworth; Directors—Henry Whiting,
I. S. Johnson, S. N. McFarland, F. A. McLaughlin,
A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAllister, Bucksport; Treas-
urer, A. C. Swazey, Bucksport; Secretary, F. H.
Moses, Bucksport; Directors—G. W. McAllister,
J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H.
Moses, E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessa-
ble; Treasury Fund, 25,000 shares.
Geo. F. Caley, President, of Saco; Ferguson
Haines, Treasurer, of Biddeford; Frank Foss, Sec-
retary, of Saco; Directors—Geo. F. Caley, Alfred
Patterson, Dr. J. E. L. Kimball, of Saco, Charles M.
Moses, Edwin Stone, Frank A. Sawyer of Bidde-
ord. JERE G. SHAW, Supt.

MINERAL HILL MINING COMPANY.
Organized under the laws of the State of
Maine. Capital Stock \$500,000; Number of Shares
100,000; Par Value \$5; Full paid and forever un-
assessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer,
A. E. Fernald, Winterport; Secretary, Walter Hal-
ley, Winterport; Directors—D. H. Smith, Winter-
port; E. C. Arey, Winterport; John Pierce, Frank-
fort; W. G. Frye, Belfast; John Atwood, Boston;
Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treas-
ury Fund, 35,000 Shares.
President, J. S. Ricker, Bangor; Vice-President,
J. W. Milliken, Bangor; Treasurer, W. P. Hub-
bard, Bangor; Secretary, E. H. Dakin, Bangor;
Directors—J. S. Ricker, J. W. Milliken, W. H. Dar-
ling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fow-
ler. WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treas-
ury Fund, Shares.
President, Weston F. Milliken; Treasurer, James
L. Rickett, Secretary, Chas. D. Clark; Directors,
W. F. Milliken, Chas. McCarthy Jr., John A. Strout,
F. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated,
Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury
Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treas-
urer, L. E. Wainan, Ellsworth; Secretary, J. B.
Reidman, Ellsworth; Directors—E. H. Greeley, J.
W. Davis, L. E. Wyman. W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated,
January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and
G, 3d floor.
President, L. Foster Morse, Boston; Secretary,
Samuel Annear, Blue Hill; Treasurer, Jno. H.
Faxon, Jr., Boston; Directors—L. Foster Morse,
Boston; Samuel Annear, Blue Hill, Me.; Geo. G.
Barker, Salem, Mass.; Thomas H. Guernsey, Bos-
ton; Joshua S. Ducklee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-
President, J. S. Ricker, Bangor. Treasurer, Chas.
Hight, Bangor. Secretary, W. J. Patten, Bangor.
Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-
sander Palmer, J. W. Thompson, George F. Dil-
lingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury
Fund, Shares.
President, H. Whiting, Ellsworth. Treasurer,
A. A. Bartlett, Ellsworth. Secretary, George A.
Parcher, Ellsworth. Directors—Henry Whiting,
Marcus Mullan, James F. Davis, Guy Mullan, A.
A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund
\$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm.
E. Brown, Bangor; Secretary, Wm. L. Johnson,
Bangor; Directors—F. O. Beal, W. J. Webb, Geo.
W. Knight, Ezra L. Sterns, Hon. F. M. Laughon,
A. H. Thaxter, B. B. Thatch, R. Bangor; A. H.
Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and
Secretary, Wm. P. Hubbard, Bangor. Directors—
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Laughon, Bangor; Melvin Preble, Bangor; Geo.
Brooks, Orrington; W. H. Darling, Blue Hill;
Thomas White, Bangor.
H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incor-
porated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassess-
able; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, W.
O. Arnold, Bangor; Treasurer, F. R. Nourse, Bos-
ton; Directors, Geo. B. Brown, Joseph G. Russel,
Francis A. Osborn, Edward D. Hayden, Chas. F.
Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer,
J. S. Ricker, Bangor; Secretary, C. F. Bragg, Ban-
gor; Directors—W. P. Hubbard, J. S. Ricker, C. F.
Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H.
M. Hartlett.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incor-
porated, March, 1880.
Capital, \$500,000; Shares \$5 each.
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Treasurer, C. C. Burrill, Ellsworth; Secretary, J.
B. Redman, Ellsworth; Directors, Hon. Eugene
Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund
40,000 Shares, preferred stock.
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and Treasurer, G. S. Bean, Bangor; Directors—
James Adams, E. J. Swan, M. G. Trask, C. C. Bur-
rill, E. C. Nichols.
E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund
40,000 shares.
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James Emery; Treasurer, A. H. Genn; Secretary,
C. J. Cobb, all of Bucksport; Directors—J. H.
Hill, James Emery, Richard Snow, Howard Swa-
zey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, Shares.
President—David Bugbee, Bangor. Vice-Pres-
ident, Frank P. Wood, Bangor. Treasurer, John
S. Jenness, Bangor. Secretary, John R. Mason,
Bangor. Directors—David Bugbee, Frank P.
Wood, Charles Duff, J. S. Ricker, Samuel Sterns,
James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

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No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Sec-
retary, W. O. Arnold, of Bangor, Me.; Treasurer,
Geo. E. Harrington, of Salem, Mass.; Directors, B.
S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E.
Harrington, W. E. Connor, L. Foster Morse, C. P.
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Capital, \$500,000; Shares \$5 each.
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rectors—Chas. I. Collamore, Alonzo Packard, Co-
lin McKenzie, C. S. Hall, Ruel Smith.
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Cashier Phoenix National Bank, New York.
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Cashier Second National Bank, Bangor, Me.

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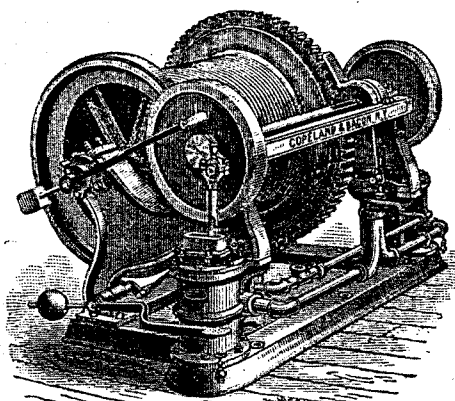
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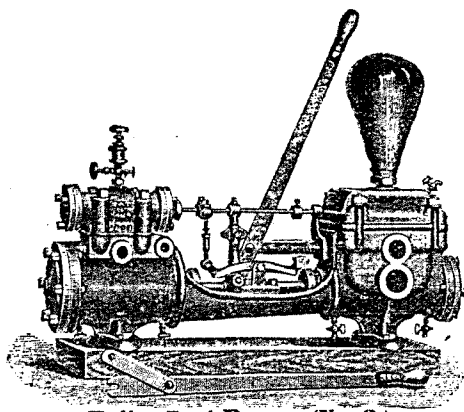
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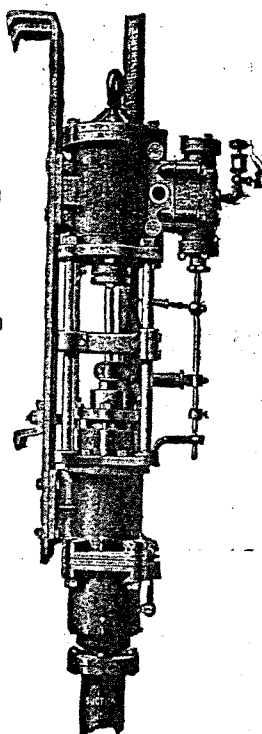
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Vol. I. No. 17.

BANGOR, MAINE, APRIL 23, 1880.

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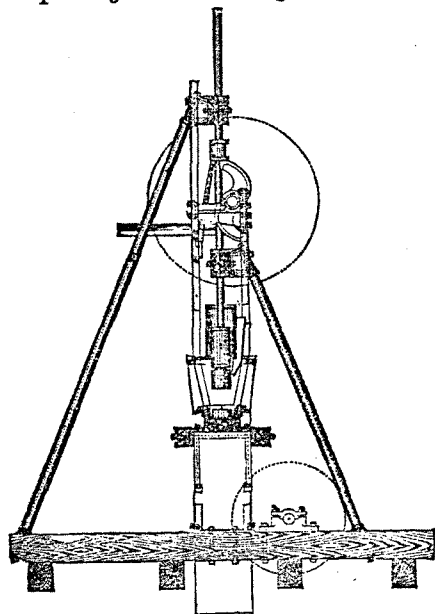
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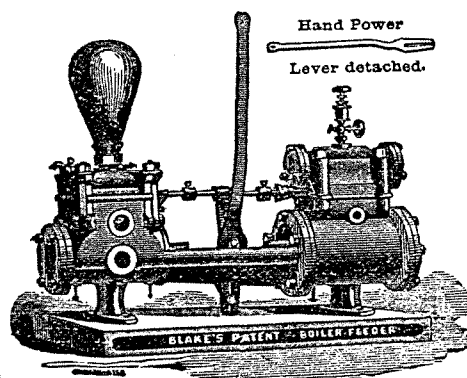
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A fine assortment of Specs, Eye-Glasses and
Jewelry.

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A. E. BARCLAY,
Analyst and Assayer,

Begs to inform the mining public that he has opened
Assaying Offices at

10 Hammond St., Bangor, Me.,
and will commence business April 26th. Mr. Barclay
trusts that his long experience in one of the principal
assaying establishments in England, together with five
years practice as analyst to the Betta Cove Mining Co.,
New Foundland, will be a sufficient guarantee of his
ability.

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Also, Brass and Copper Wire, Wire Rope, &c., &c.
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GOULD
Silver Mining Company.

The Mining Property known as the Gould
Silver Mine is situated in St. Albans, Somerset
County, Maine. It is known as the Tripp Farm,
bonded of Maria J. Emerson by J. C. Tripp of
Monson and J. W. Gould of Blue Hill.

A shaft has been worked to the depth of seven
feet, the ore taken out being very rich and prom-
ising, assaying \$35.00 to the ton. At a meeting of
the Bondholders at the Maine Mining Exchange
in Bangor, the Company voted to form a joint
stock company under the laws of the State of
Maine, said Company to have a capital of \$500,000,
to be divided into 100,000 shares of a par value of
\$5.00 each, which are to be forever unassessable.
Said Company agrees to put into the Treasury so
formed 23,333 shares of the capital stock, and three
thousand dollars (\$3,000) in cash; and of the re-
mainder 43,000 shares are for sale at 40 cts. per
share.

ISAIAH S. EMERY,
WM. H. DARLING, } Trustees.
February 26, 1880.

Blue Hill Mining Exchange,

AND OFFICE OF

COL. W. H. DARLING,

Blue Hill, - Maine.

CAPITALISTS DESIRING BOTTOM FACTS

IN REGARD TO

THE BLUE HILL MINES,

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Blue Hill, Maine.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

F. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, APRIL 23, 1880.

THE STOCK MARKET.

The recent depression in mining stocks has been simply the result of a variety of natural causes, assisted of course by the "bears," who stand ever ready to take advantage of any downward tendency in the market. That the turning point has been reached seems evident from the increased activity and advanced prices in Wall street, and the better feeling which prevails in the Boston stock market.

It has been our firm belief from the first that the ultimate effect would be beneficial to the business public in general and to the mining industry in particular, and such seems to have been the case; while the stocks of the really valuable, producing mines, which are managed in a way to inspire confidence, are being sought after at steadily advancing prices, those of companies whose affairs are in the slightest obscurity are still drooping.

Within the past few months the mining industry has come into greater prominence than ever before in the history of the country. Never before in the Eastern States has the interest in mines and mining stocks been so general and wide spread. Capitalists had begun to look upon mining in the light of a legitimate business rather than as a field for speculation, and a better class of men than formerly dabbled in stocks were induced to invest liberally in the enterprise. Shrewd operators noted the tendency and the supply of stock companies soon exceeded the demand. A slight reaction followed, and close upon its heels came the Little Pittsburg fiasco, which completely demoralized the market. This was the opportunity for the "bears," and they have well improved it.

While capitalists have not lost confidence in mining as a profitable venture promising large returns for small amounts invested, yet they have become exceedingly shy and wary, and show a disposition to make themselves thoroughly acquainted with the condition of a mine and the status of the company before purchasing the stocks.

The people of Maine will do well to take note of this and govern themselves accordingly. If they do not flood the market with stocks of worthless companies, and if they see

to it there be no Little Pittsburg affairs on a small scale, our mines will take care of themselves, and as soon as they become producers, which in many cases must be soon, there will be no difficulty in procuring capital to carry on the work of development.

We have the most unbounded faith in the value of our mines and the immense benefits which we as a people must receive from their successful working; but it must be remembered that it takes a large amount of capital to develop them, and in order to secure this, the greatest care must be taken that we be not unwise in our enthusiasm and that all our actions shall be above board and strictly on the square.

Personals.

PROF. W. F. STEWART left Blue Hill on Monday last for Sullivan.

MR. B. O. CUTTER has postponed his Georgia trip and has returned to Maine.

SUPT. McLAUGHLIN, of the McFarland, made the Mining Journal a call a few days since.

COL. WM. H. DARLING has gone this week to visit a very promising mine recently purchased by him at West Milan, N. H.

MR. MOYLE, a well known mining superintendent at Lake Superior, is to at once take the superintendency of the Blue Hill mine.

PROF. F. L. BARTLETT and HON. F. M. LAUGHTON recently visited the Shorey mine in the town of Lowell in Northern Penobscot.

WM. D. LEWIS, Esq., of Boston, visited Maine the latter part of last week to look after the Fort Point Hotel, a well known sea side hotel purchased by him last fall.

DR. FELLOWS, of Prospect, is enthusiastic in regard to the gold regions of the Chaudiere and soon leaves for that section to look after a claim in which he has a large interest.

MR. M. W. EMERY has arrived in Bangor from Boston and has taken the Superintendency of the Norombega mine on the Hampden lode. MR. EMERY is a man of extensive mining experience in the far West.

MR. GEO. D. HOLT, of Nevada, has been in Maine some weeks. He has now gone to Blue Hill and from there will go to Boston and will return next week to take charge of several mining properties in St. Albans, Somerset county.

The assay office of MR. THOMAS CAHILL at the Maine Mining Exchange is now open and ready for business. The scales for which MR. CAHILL has been waiting have arrived from San Francisco and are the finest and most elaborate on the eastern coast. They were manufactured by L. Oertling, London.

MR. WILKIE DARLING, the Superintendent of the Revere mine, is very enthusiastic in regard to the mineral possibilities of Blue Hill Neck and affirms that in a brief time five thousand men will be engaged in mining on the Neck. The opinion should be given considerable weight as Mr. Darling is a thorough mining man and is fresh from the mining regions of Nevada.

GEOLOGICAL REPORT,

Upon the Property of the Swan Mining Company of Franklin, Hancock County, Maine, By W. F. Stewart, Geologist.

By the combined energies of moving glaciers and disintegrating elements, the Atlantic border of Maine has been sculptured and eroded into inconceivably fantastic outlines. To enhance the weird wildness of the rugged coast-line, the flanking waters of the ocean are literally speckled with innumerable volcanic islands, and by storm-defying reefs of verdureless granite. In an æsthetic point of view, the natural feature markings of this portion of North America cannot be excelled; but to the practical geologist and unpoetical prospector, the deeply furrowed condition of the coast is of far greater interest than the simple grandeur of the landscape.

The deep fiords and jagged inlets which penetrate the northwest coast-lines of Norway and Scotland, have been repeated, upon a more expansive scale, along the northeastern border of this continent. That this deeply serrated condition of the coast-lands in both hemispheres, was chiefly the work of moving glaciers during the quarternary geologic period, is now generally conceded. Even the bays, sounds and inlets, in the regions referred to, were formed and fashioned by the rock-severing plows of the irresistible glaciers.

In a mineralogical point of view, these deeply furrowed glacier channels and widely eroded surface depressions, are of the profoundest interest to mine owners and prospectors.

Although the inconceivable weight and force of a glacier were sufficient to drive its cutting base through the most obdurate substances, yet, like flowing water, it naturally attacked points of least resistance, and hence moved through, and plowed channels in the softer beds and strata.

Highly silicious rocks which are nearly, or quite barren of oxidizable substances, always present exceedingly refractory surfaces, which are not easily disintegrated by eroding agencies. Rocks heavily charged with oxidizable metallic compounds are always less refractory, for the simple reason that their metallic contents speedily rust out when exposed to the action of meteoric waters, and thus render the silicious residuum friable and susceptible of rapid disintegration. By carefully observing the topographical outlines of a well mineralized mining district, it will frequently be seen that the heaviest ore deposits underlie the deepest surface depressions, or spots where the eroding and disintegrating agencies have been most energetic. As a rule, it will be found that the rocks in such eroded depressions are strongly charged with iron, in some form of combination, and as iron is readily oxidized by acidulated waters, the cause of the eroded depressions is clearly apparent.

I cannot affirm that eroded surface depressions in mineralized zones, are infallible indices of rich ore deposits at greater depths; but the known chemical action upon oxidizable substances, together with the observed topographical features of many of the most celebrated mining districts on this continent, lends some degree of plausibility to the theory.

The most fertile deposits of the precious and useful metallic ores yet discovered in Maine, usually appear either directly along the shores of the bays and inlets, above alluded to, or in the midst of some neighboring land depression, and hence we are irresistibly led to the conclusion that the tremendous, eroding forces of past ages, have plainly indicated the probable position of vast deposits of subterranean treasures.

Numberless instances might be cited to prove the plausibility of this theory; but I shall present only one widely known example, namely:—the famous Comstock lode at Virginia City, Nevada. Flanking the north and south sides of an elevated ridge known as the "Divide," which lies between the village of Gold Hill and Virginia City, there are two deep depressions locally designated, Gold Canyon, and Virginia Basin. Within those two eroded depressions lie

the wonderfully fertile Bonanza mines of silver and gold, which have, during the past twenty years, yielded nearly \$400,000,000. The porphyritic wall rocks of the Bonanza mines are notably charged with disseminated crystals of iron-pyrites, while the intervening ridge, or Divide, is simply a mass of tough silicious rocks and barren white quartz. About fifteen years ago, some enterprising gentlemen commenced mining upon the very apex of the Gold Hill Divide. The work of excavation has been unremittingly carried forward ever since, and is at this moment in full progress. About \$3,000,000 have been expended upon this property by assessments levied upon and collected from the stockholders, and yet the barren rocks make no sign of bullion out-put. If it be really true that eroded rock-surfaces in elevated mountain countries like Nevada, are indices of mineral wealth, surely the deeply furrowed glacier channels of Eastern Maine should afford some encouragement to mine locators in this region.

SWAN MINE.

The property of the SWAN MINING COMPANY, known as the SWAN MINE, is located near the village of Taunton, in the township of Franklin, Hancock County, Maine.

As might be inferred from the foregoing remarks, the SWAN MINE rests in the midst of a wide depression, or expansive basin, the borders of which surround one of the grandest sheets of water in America—marked on the maps—Frenchman's Bay. The rock exposures in the vicinity of this magnificent bay, everywhere bear evidences of the tremendous effects of glacial action. On every hand there are erratic boulders, furrowed strata and eroded channels. In fact, the entire region affords imperishable proof that Frenchman's Bay owes its present channel, to the eroding energy of a moving glacier.

The country to the eastward of the SWAN MINE is granitic—the prevalent species being hornblende. Portions of this granite belt afford excellent building material, and some fine quarries are in successful operation at a point near the village of Taunton. The mine is situated at the distance of about a mile west of the granite rim, in the midst of the wide bed of schistose rocks which encircle Frenchman's Bay.

This slaty bed is slightly chloritic, and is very tough and compact in texture below the weathered surface. Like most of the argillaceous rocks in that region, it contains mica, and I shall therefore designate it as an argilo-micaceous schist.

The lines of lamination in this bed, are exceptionally distinct, and may be readily traced a long distance without giving the slightest manifestation of flexures, or of local faultings.

The vein-stone of the SWAN, is a true mineralized quartz, having a surface diameter at points of exposure, of from one to three feet, and expands rapidly as it descends in the schists. The strike of the vein for a thousand feet or more, is about north, 8 deg. east, by the compass, and its average inclination or dip, is from 65 deg. to 75 deg. below the horizon. Owing to the corrugated condition of the enclosing strata, the direction of the dip is very variable. There are two openings upon the lode, separated by a space of several rods. At the most northerly of these, the dip is toward the east, at an inclination of 65 deg.; while at the principal excavation, toward the south, the vein pitches toward the west at 75 deg. from the horizon.

The main shaft of the SWAN MINE has been driven vertically through the lode, and at the present juncture, has reached the depth of eighteen feet. The gangue, or vein matter of the lode at the present working, is from six to eight feet in lateral diameter. This entire space, except the ore channel, is filled with reticulated seams of white quartz, iron pyrites and slaty rocks. In fact, the materials at this point of excavation, clearly indicate a rapid and permanent widening of the lode. The true ore channel traverses the eastern side of the gangue, and is, at the present working,

from twelve to sixteen inches in width. The ore is a compact argentiferous sulphuret of lead, which traverses the quartz in thin bands and disseminated bunches. The ore is very rich in lead, and, as will appear from the accompanying certificates of assay, is also well charged with silver.

Although the ore channel in the SWAN MINE is, as yet, merely a well mineralized band of silver bearing galena, still, it is unquestionably a true fissure vein, and its entire lithological and geological surroundings are sure guarantees of its permanency and reliability. In addition to the fact that the vein is undisturbed by local eruptive forces, we have the comforting assurance that it traverses a system of strata in which ore veins usually penetrate to profound depths. Moreover, experience has proved that mineral veins environed by this species of laminated rocks always increase in width and fertility as depth is reached from the surface. As yet, the mining exploitation in Eastern Maine is too superficial to afford striking proofs of this assertion; but sufficient development has been made at Sullivan, Blue Hill, Acton and other mining districts, to warrant the belief that the statement is well founded.

The experienced mining expert always determines the value and reliability of an ore-bearing vein by ascertaining the species of rocks which environ it. Rich deposits of the precious metals are frequently found imbedded in unstratified rocks, such as granite and homogeneous dolomite. Experience has shown, however, that ore-bodies thus situated are as a rule, disastrously unreliable, for the simple reason that they are merely surface deposits. Compact granites present no visible cleavage laminations, and hence, ore bodies penetrating them, have no reliability of either depth or of width. The same may be stated in regard to dolomitic limestones. Ore bodies resting in such rocks are usually found in the condition of shallow beds or chambers, and therefore soon become exhausted. The trustworthy mines of the globe usually exist either in deep chasms between rocks of different species, as "contact veins," or in the profoundly fissured laminations, or metamorphic cross-fractures of sedimentary terranes. The SWAN lode traverses a true fissure in the tilted strata of a metamorphic sedimentary bed, and there can be no doubt about its reliability.

To be more explicit about the geological position of the SWAN MINE, it may be as well to state that it rests perfectly conformable with the stratified lamination of a vast Archaean sedimentary deposit, known to geologists as the Huronian. It has been estimated that the vertical depth of Huronian strata is from ten thousand to twenty thousand feet; and as the cleavage fractures of the upturned strata, extend through the entire deposit, some idea may be formed of the probable depth of the Swan vein matter.

In this connection, I desire to state as briefly as possible, the accepted theory in relation to the trend, or strike, of rock laminations. It is now generally admitted by geologists, that the rock fractures, or deep surface fissures of the globe, have been occasioned by some general law of terrestrial crystallization. In other words, that the entire surface of the planet is crystalline, and that the rocks manifest a tendency to split in certain directions, like the cleavage lines in ordinary rock crystals.

As Professor J. D. Dana stated it: "Two great systems of courses or trends prevail over the world, a north-western, and northeastern, transverse to one another; that the islands of the oceans, the outlines and reliefs of the continents, and the oceanic basins themselves, alike exemplify these systems; that the mean average directions of the two systems of trends are northwest by west, and north east by north; that there are wide variations from these courses, but according to principle, and that these variations are often along curving lines; that, whatever the variations, when the lines of the two systems meet, they meet nearly at right angles, or transversely to one another. * * * In North America, the northwest system is seen in the general course

of the Rocky Mountains, the Cascade Range, and the Sierra Nevada; in Florida; in the line of lakes, from Lake Superior to the mouth of the Mackenzie; in the southwest coast of Hudson's Bay; in the shores of Davis' Straits and Baffin's Bay; and with no greater divergences from a common course than occur in the Pacific. The northeast system is exemplified in the Atlantic coast, from New Foundland to Florida, and, still farther to the northeast, along the coast of Greenland."

The great zone in which the SWAN MINE is situated, belongs to the grand northeast system of continental trends, and, as it has not been perceptibly deflected or faulted by disturbing forces, it evidently occupies its original crystalline position, and is therefore in perfect harmony with the accepted theory of continental rock-structure.

That the SWAN, at its present superficial depth, contains some refractory base elements, such as the sulphurets of iron and lead, is certainly true; but the practical working of just such mines in other portions of the world has long since proved that when such base elements appear at the out-crop of a well defined silver bearing lode, they rapidly fade out as depth increases from the surface, and finally give place to the more precious metal.

The present developments upon the SWAN lode are merely superficial, and therefore afford a limited knowledge of the real conditions of the mine. I am fully satisfied that when suitable mining appliances shall be placed upon the property, the SWAN will speedily assume the character of a permanent and valuable silver mine. The SWAN MINING COMPANY hold perfect title to all minerals which may exist upon a territory one hundred and eighty rods east and west, by one hundred and twenty-eight north and south, or one hundred and forty-four acres of land upon which their mine is located, together with all the rights and privileges necessary to develop the same.

The vein whereon the shaft is now being sunk, lies about fifty rods west of the east line of the property.

The mining works are easy of access by a well constructed wagon road, and are also within three-fourths of a mile from the shore of Frenchman's Bay. The tract of land referred to, is covered by a fine forest of living trees, which will furnish all the timber and lumber required by the owners for mining purposes. In brief, the SWAN MINE is in every respect a promising prospect for a first-rate silver mine.

Yours very sincerely,
W. F. STEWART.

BLUE HILL, March 18, 1880.

FOREIGN MINING NOTES.

No. 9.

BY F. L. BARTLETT, STATE ASSAYER.

TIN AND TIN MINING.

Although tin mining is not as yet an industry with us in Maine, still, in the possible anticipation of it and from the fact that it is so little understood by us I feel quite confident that a description of it, even from my poor pen, may not be wholly devoid of interest. I have already quite fully discussed the geological character of the Cornish formations where all the tin occurs, in previous letters.

The historical interest attached to the tin mines of Cornwall is interesting and varied, dating back as it does four or five hundred years before the Christian era, when the traders from the East visited Cornwall, then called Cornubia from its horn shape, to purchase "white metal" from the inhabitants. Tin mining was one of the first British industries and helped form the commercial character of the country. Siculus, 60 B. C., describes the tin trade of Cornwall. Many of the ancient crowned heads of England have engaged in this industry. Laws were made by King John and later the Court of Stanneries was instructed to protect the tin business; by Edward I, duties were levied. On each lb. raised one half penny was paid in return for certain rights and privileges granted. In the time of Queen Elizabeth the total yield from the tin mines was 700 tons yearly. The production now from about 200 mines is not far from 15,-

000 tons. The alluvial tin deposits have been worked the longest. The streams had cut through the granite bosses and washed the detritus down into the valleys where the tin, owing to its great specific gravity, had collected in much the same manner as gold. The beds of these streams have been repeatedly washed over and are worked to some extent to-day.

In searching for alluvial tin the miner is obliged to dig down through the river beds sometimes to the depth of 60 feet. Carn Brea hill close by Redruth is the shoulder of a granite boss around and under which tin seems to be stored in great quantities, and many famous mines are located near it. Through the courtesy and kindness of John F. Penrose, Esq., of Redruth, I was enabled to visit and become acquainted with the working of many of the mines about there, and to him I am indebted for much information and many kind acts which helped make my stay pleasant at Redruth.

THE DALCOATH

tin mine can boast more years of age than probably any other mine in the world. Unfortunately no records of an authentic nature have been preserved so that its exact age is not known. It is the largest, oldest and most productive tin mine in the world. Dalcoath at the time of my visit employed over 1000 people underground and above. More than 300 tons of ore are raised daily, yielding monthly 120 tons of dressed tin. It is now paying dividends of \$5 per share quarterly. The underground workings are wonderful in extent and depth, the lowest level being 2240 feet deep. The ground covered by the dressing machinery would number many acres. Dalcoath yielded vast quantities of copper formerly, but now the workings have extended down so deep in the granite that no copper is obtained. The "killas" or clay slates contacted with the granite at 600 feet consequently below that depth no copper was raised. This mine is most undoubtedly well managed by the present officers.

I examined this mine and several others carefully and obtained all the information I desired and asked all the questions I cared to. Then I made up my mind that I could not leave Redruth until I had been

DOWN IN A TIN MINE.

As it is no small undertaking to go to the bottom of an old, long-worked tin mine and requires the best part of a day to do it thoroughly, I concluded to do only one and I accordingly selected "East Pool" as the one best suited to my purpose. Capt. Bishop kindly offered to act as my escort and promptly on the day and at the hour appointed I was "thar." I was shown a room, provided with a suit of coarse flannel, and told to strip even to the skin. I did so and put on a pair of thick shoes, a night cap on my head and over that a hat of cast iron, not exactly, but just as hard, being made of thick cloth filled with pitch, made stiff to keep falling rocks from breaking your head. If I was a miner I would run the risk of trying the hardness of my head compared with that of the rocks rather than wear that hat. Thus equipped and provided with a number of candles and a chunk of clay to hold them in we bid good-bye to daylight and took our stand in the "kibble," which is a coffin shaped affair just large enough for two men to stand up in. We went down quickly to the 1200 foot level when we got out and made the remainder of our journey on foot. How many "levels," "winzes," "galleries" and "floors" we passed through I will not attempt to say. The captain pointed out the junction of the granite and clay slate which is clearly defined and denotes the line of demarcation of the tin and copper ores.

Every now and then we came to a crew of men drilling away at the ore which occurs in quartz veins three or four feet thick. After walking about for two or three hours I found out the utility of the flannel suit which is admirably adapted to absorbing the perspiration which the hot compressed air had caused to exude from every pore of my body, but the "iron hat" I still had evil intentions towards, for a more uncomfortable thing I never wore.

We stopped to rest where the steam drill was at work and the cool, fresh compressed air from the drill was like a breath of heaven (as it truly was) to us in this pent up place. These drills driven by compressed air are a boon to the hard-working miner supplying him with plenty of fresh air and thoroughly ventilating the mine. The drill was stopped and we all sat down for a smoke, and with 2000 feet of solid rock above us, the ore vein gleaming in front of us, with specimens from nature's great store house all about us, we entered into a discussion of the geology of the rocks and ores around us. I was astonished at the amount of knowledge displayed by these men; they had worked there so long that the rocks and ores had become to them a part of their being. They understood all the little freaks and wonderful barometric changes of the rocks as a sailor does the sea. Each crystal, each bit of rare mineral, every crevice, and every bunch of ore had to them a significance, and foretold with absolute certainty what was to come. They spoke of the rock as being "kindly," "squeezing," "cross-

grained," "showing a good bit," in much as one would speak of the good or bad points of a horse. Capt. Bishop proved himself a gentleman of unusual knowledge on vein mining and I shall always remember with pleasure the lesson that I received from these men while enjoying our smoke 2000 feet under ground, and if their words were not clothed in the best rhetoric they were truths wrung by their own sturdy arms from the rocks around them. About 200 men were at work under ground; all were either "tribute" or "tutmen;" none worked by the day.

After thoroughly examining the mine with all its pumps and numerous passages—the rocks, ore strata and dips—we climbed slowly up to the 1200 foot level and waited for the kibble. Going up a bolt snapped; I held my breath and tongue, too, until we reached the platform, and then I asked if anything ever broke. The captain said the kibble occasionally went down of its own accord but never had killed anyone yet. It is needless to add that I breathed easier after that. We "peeled" took a bath, donned our own clothes and sat down to a substantial dinner which had been prepared for us by the housekeeper at the mine. While eating, the captain gave me some of the details. Tin ore containing one per cent would, under favorable conditions, pay to mine. The average percentage was about 2 1-2, but the Cornishman never speaks of the percentage but of the number of lbs. per ton; thus a 2 1-2 per cent ore would be a 50 lb. ore in their style. Wolfgram is quite abundant and quite a nuisance in some of the ores. Arsenic occurs with nearly all the ores; also iron pyrites. Uranium is found frequently; schelite more rarely. Their method for assaying tin ores, although rough and seemingly absurd appears to give pretty accurate results, near enough for all practical purposes. A half ounce of the powdered ore is weighed out, "vanned" on a shovel, roasted, the iron picked out by a magnet and the residue which is tin oxide weighed, and the weight indicates the number of pounds per ton.

DRESSING THE TIN ORES

is a process complicated and hard to work. Briefly, the ore is crushed by stamps to pass a 40 mesh sieve, run through "buddles," calcined or burnt, buddled again; from these it goes to tubs with stirrers and knocking gear, where the best part is taken out and bagged. The tailings and slimes are worked over and over again in buddles and "frames" until they are brought down to about 3 or 4 lbs. to the ton, when they are allowed to escape into the river.

This process of dressing the tin ore is expensive and slow and requires an extensive plant of machinery; 150, 200 and even 300 heads of stamps are not unusual, and as the buddles work slow a great many of them are required. The stamps are mostly old fashioned, square cast iron affairs which soon wear out. It seems to me that tin dressing calls for some improvement. I understand that very little change has been made in the mode of dressing for the last 25 years. Large quantities of arsenic are caught in condensing chambers from the calciners. The yield from some of the mines, of arsenic, is of no small account and adds largely to the income. Notwithstanding that the "tailings" and "slimes" pass from the mines into the river with only 3 or 4 lbs. of tin in them per ton, they are set upon by the "stream workers" who drive quite a business, working them over again, and some of their plants for doing this work are extensive, so that of all the tin mined in Cornwall, it is safe to say, that very little of it is wasted but all sooner or later finds its way into the market.

Looking over this business of tin mining, vast as it is, I cannot help thinking that unless some other metal is substituted or new mines discovered soon, tin will reach a price not yet seen. Most assuredly if the canning business continues in America the demand for tin plate will be much larger than the mines are able to supply.

Since a good part of the canning business is done in Maine we ought to have a tin mine to go with it.

Bucksport Mines.

Editor Maine Mining Journal:

Work on the Snow property is progressing rapidly. It is said that pay rock has been struck, the recent assay by Prof. Thompson showing gold and silver to such an extent as to warrant the saving of the ore. This assay, which will be made public in due time, exceeds the most sanguine expectations of the owners of the mine, showing that the ore carries a very large percentage of gold and silver. There is no stock being offered, the owners holding it firm, having every reason to believe that they have more than a good thing, the assay in question show over one thousand dollars to the ton. Supt. Snow has just returned from Boston where he purchased a rotary pump, which has been placed in the shaft, by which the mine is kept clear of water. We look for extraordinary developments from the mine in a few weeks.

The owners of the "BUCKSPORT" which is on the same vein

as the "Snow," only about 60 rods distant, encouraged by the rich developments which the Snow has shown, are pushing their shaft as fast as possible. The Foreman, Mr. Staples, informs me that the excavations are most excellent, the rock being exactly like the "Snow" at the surface.

The owners of the COMSTOCK are also hard at work, with every prospect of success.

The BOSTON & BUCKSPORT will organize in a few days and will at once commence work on their property which is also on the Snow vein.

These mines are beginning to attract attention from all sections, and every day brings strangers here who are looking at Maine mines. They all go away satisfied that these are most excellent indications.

There are several private parties opening mines but of the results so far obtained I have no knowledge.

Bucksport, April 18, 1880.

The Swan Mine.

Editor Maine Mining Journal:

A rich thing has been struck in the "Swan Mine". At a depth of 34 feet the vein rapidly widened and filled with fine galena ore throughout. The prospect now is that this is soon to become a dividend paying mine. Prof. Stewart pronounces it a *true fissure* and a *first rate prospect* of a good mine.

Franklin, April 19, 1880.

SURT.

The Daily Graphic.

One of the most valuable newspapers published in this country is the New York Daily Graphic, four editions of which are issued daily by the Graphic Company, 39 and 41 Park Place, New York. It is ostensibly an eight-page paper, but nearly every number contains a supplement, thus furnishing in addition to its profuse illustrations, a large amount of entertaining reading matter and news of the day. The editorial department is ably conducted, and special attention is given to financial and mining matters in both of which it is an acknowledged authority.

Pocket Mining Atlas.

We have received from the publisher, Mr. Edwin Bolitho, of the Engineering and Mining Journal, a very neat and tasty edition of a Pocket Mining Atlas containing maps of the mining districts of Dakota, Montana, Idaho, Colorado, Utah, Nevada, California, New Mexico, Arizona and also the copper and iron region of Lake Superior and the gold fields of Georgia. These maps are believed to be more nearly accurate than any that have yet been issued and being in such an attractive and convenient form will be found of great value to all who are interested in the mining properties of this country. Price \$1.

LODES, LEADS AND VEINS.

NOROMBEA.—Mr. Moses B. Emery, a skilful mining Superintendent from the West, assumed the duties of Superintendent on Monday. The shaft is down 35 feet.

CONSOLIDATED HAMPDEN.—The shaft is down 120 feet. Some fine ore has been taken from the vein.

LAWRENCE.—The shaft is now being timbered. An ore house is about completed.

WESTERN UNION.—The shaft is now down 25 feet.

FRANKLIN AND FRANKLIN EXTENSION.—A letter from Richard Laffan, foreman of the Franklin Silver Mining Co., contains the following items of interest. The letter was written April 11th: "The shaft is now down four feet. We are getting on the western side of the shaft, two-thirds of the way across the finest ore that has been produced in the county of Hancock, and on the eastern side of the shaft we are getting galena ore in abundance. Every inch we go improves the look of things. We are taking out ore enough to more than pay all our bills. We blasted out one piece of ore yesterday that would weigh five hundred pounds. It was all four men could get out of the shaft. We have the best ore on the western wall. Good judges say that it will go five hundred dollars per ton." The

Franklin property now stands very high in the estimation of mining men. The Franklin Extension which is owned largely in Portland is the adjoining claim. The Superintendent, Capt. Isaac Hamilton, will be on the ground next week and will at once commence sinking the shaft. The vein is what is known as a contact vein, the east wall being of sienite and the west wall of slate. Both walls are perfectly defined. The owners of both these claims are confident they have a bonanza.

EGYPT.—Substantial buildings have been erected and a shaft sunk about twelve feet which is expected to cut the vein at a depth of thirty feet. The vein is fully six feet wide on the surface, and presents a fine showing. The work is under the supervision of Mr. Barney Mullan.

CHERRYFIELD.—During the past two months the journals and papers devoted to mining interests have published but little information regarding the Cherryfield Silver Mining Company, whose mine is located about half a mile from the town of Cherryfield, Washington county, Me. Work has been steadily continued during this time and considerable progress has been made. On the 15th of February the shaft had reached a depth of 106 feet and at this level two drifts were commenced for the purpose of exposing the vein both to the east and west of the shaft. On the first of April the drifts had been run a distance of 63 feet with very satisfactory results. The vein for this distance was shown to have a width of from 2 to 5 feet, carrying a pay streak of high grade mineral varying in width from 12 to 24 inches. In the eastern drift the pay streak has continued very uniform and considerable valuable ore has been taken out. Many assays of this ore have been made which show it to carry from 100 to 200 oz. silver per ton. In the western drift considerable barren quartz was encountered but at present date the mineral is again coming in and some high grade galena (entirely free from zinc) is being taken out. Assays of this galena show it to carry from 75 to 100 ounces of silver per ton. Up to the present time the company have expended upwards of \$5,000 in developing their property and the results obtained from the past two months' work have proved so satisfactory that the company have concluded to erect substantial buildings and put in the necessary machinery (at a further cost of from \$2500 to \$3000) to sink the shaft to a depth of 500 feet. Plans for the new shaft house which is to be 80x30 feet and two stories high, have been completed and work on the same will be commenced during the present month. It is also proposed to commence a new shaft about 300 feet east of the present shaft, and to connect with same at a depth of 200 feet. The company now have in their ore house about 50 tons of picked ore which is worth upwards of \$50 per ton. There are at present 16 men employed in sinking the shaft, a day and a night crew. Work in the shaft was resumed April 1st and since then a further depth of 8 feet has been reached. Even in this short distance the results have been very encouraging as the pay streak has shown a steady increase both in width and in the amount of mineral it contains. The following gives the result of two lots of ore sent Prof. R. H. Richards for assay.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
BOSTON, MASS, March 25th, 1880.

The sample of ore sent by you for assay last week marked "Cherryfield ore," weighing 62 lbs., avoird., and which appeared to contain the following minerals: zinc blende, galena and quartz, has been carefully assayed and yielded to the ton of 2000 lbs. avoird.:

Silver, 38 oz. @ \$1.10 (U. S. standard value) \$41.80
(Signed) Robert H. Richards, Prof. of Mining.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
BOSTON, Mass., March 25th, 1880.

The sample of ore sent by you for assay, last week, marked "Cherryfield ore" weighing 12 oz. and which appeared to contain the following minerals: zinc blende, galena and quartz has been thoroughly assayed and yielded to the ton of 2000 lbs., avoird.:

Silver, 107 oz. @ \$1.10 (U. S. standard value) \$117.70
(Signed) ROBERT H. RICHARDS, Prof. of Mining.

NARRAGUAGUS.—The Narraguagus Gold and Silver Mining Company was recently organized at Cherryfield with a capital

of \$400,000 in \$5 shares; 20,000 constitute the working capital. The name of the President was not learned. The other officers are as follows: Treasurer and Secretary, C. P. Nichols; Directors, C. P. Nichols, Wm. C. Ricker, G. W. Wakefield, C. J. Miliken; Manager, G. W. Wakefield. The mine is situated about three miles from the village of Cherryfield, and half a mile from Sprague's Falls, on land owned by G. S. Wakefield & Sons.

GOULDSBORO.—A shaft house 40 feet by 80 feet will soon be built.

WEST BAY.—A shaft house 40 feet by 26 feet is in process of erection.

MORANCY.—A letter from the Supt., Mr. F. W. Crosby, dated April 21st, says: The Morancy shaft is down 30 feet, and is strongly and neatly timbered up, and a new shaft house built over it. The vein matter is becoming somewhat softer, and the vein is straightening up to about its original position with a dip of 73° east. A contract has been made for sinking which will be pushed as rapidly as possible.

PINE TREE.—At a recent meeting of the directors of the Pine Tree Silver Mining Company Charles H. Lewis and Robert L. Cutting, Jr., of New York, were elected directors, W. O. Arnold, of Bangor, Secretary and Robert L. Cutting, Jr., New York, Treasurer. Gen. John M. Corse, of New York, is President of the company.

CONNERS.—This mine is situated near the shore, east of the Waukeag house, and is owned by Messrs. J. H. West and John P. Gordon of Franklin, and Mr. C. W. Connors of Sullivan. A shaft is now being sunk, which has attained a depth of 14 feet, showing a vein of good quartz, carrying galena, copper and iron, and looks quite promising. We understand that it is the intention of the present owners to incorporate the property at an early date. Edward R. Connors is superintending the work in a creditable manner.—[*Sullivan Bulletin*.]

McFARLAND.—Supt. McLaughlin reports that the shaft has reached a depth of 36 feet and that the ore shows marked improvement.

LITTLE SUE.—*H. B. Mason, President of the "Little Sue Mine."*—Dear Sir: During my recent visit to Lamoine I examined the Little Sue Mining property and am well pleased to say that I consider it one of the best properties for the amount of development that I have seen. The vein, a well defined fissure, with surface croppings in places 2 feet wide and of a very fine quality, is heavily mineralized with sulphurets of copper; also from assays I have made from \$9 to \$12 in gold and a trace of silver, which according to Prof. Stewart's theory, will, as depth is obtained, take the place of the copper. Your mine is in an excellent location for working at all seasons of the year, laying as it does on the shore of Frenchman's Bay with a warm southerly exposure. The prospecting in the vein shows a perfect vein for several hundred feet and the surface showings continue for some 30 rods, or as far as I followed to where it enters the woods. You have also four or five other veins on your property visible on the shore and running through the Little Sue property which I think will develop into something valuable. I think the property one of great intrinsic value and would advise its speedy development, and I would advise sinking a perpendicular shaft 30 or 40 feet south of the present working so as to cut the vein about 60 or 70 feet deep, where I have no doubt you will find a large body of ore, as I notice in your prospecting shaft that the vein widens very fast. From other mines I have visited and examined in the State I have no hesitancy in saying that I consider the Little Sue one of the best mines, as far as developed, I have yet seen. I made during the past four months assays with the following result:

No. 1—Copper,	3 2-10 per cent;	Gold,	\$ 9.83
No. 2—"	2 9-10 "	"	9.19
No. 3—"	4 7-10 "	"	11.69
No. 4—"	6 9-10 "	"	63.80
No. 5—"	1 2-10 "	"	12.26

B. O. CUTTER.

EASTERN BELLE.—Work continues and a depth of 19 feet has been reached. Mr. Arthur Hunt is superintending operations.

CASTINE.—The Castine Mining Company has been organized

with the following as officers: President, W. H. Sargent, Castine; Treasurer, W. G. Sargent, Castine; Secretary, Joseph Williamson, Esq., Belfast; Assistant Secretary, John F. Rea, Castine; Directors, Hon. Wm. C. Marshall, Joseph Williamson, E. C. Bassick, Belfast, Capt. Amos Smith, John F. Rea, W. G. Sargent, Castine, and J. W. Black of Searesport; Superintendent, Capt. Amos Smith. The capital stock is \$500,000, in 100,000 shares, with 32,000 in the treasury. This promising vein was discovered in 1878 by Capt. Amos Smith, from the deck of the steamer May Field, and the property was bonded by him at that time. Immediately after, he sailed for a distant port. Returning in 1879, he sent specimens of the surface ore to S. Dana Hayes for assay, and the result showed 108 oz. silver to the ton. Work was immediately commenced upon the property and has continued up to the present time, and the indications are now considered sufficiently promising to warrant the formation of the above company.

EAGLE BROOK.—The Eagle Brook Silver Mining Company was recently organized in Portland to work a claim just taken up in Sedgwick. Advices from Portland are to the effect that the property of the company is situated within ten minutes' walk of the steamboat landing, and consists of the mineral right in forty acres of land. There are three well defined veins running the longest way of this property, which show on the surface some very heavily mineralized ore, which closely resembles the Edgemoggin and Deer Isle, being a close and massive galena. The company is organized with a capital of \$500,000 divided into 100,000 shares of a par value of \$5. It is proposed to sell 5,000 shares of the treasury stock, and no more will be offered until the property is somewhat developed. None of the individual stock will be offered for sale. It is said the owners have already had some very flattering offers for their property, but prefer to hold it. Mr. A. N. Hawes of Portland has been appointed trustee of the company.

DEER ISLE.—The annual meeting of the stockholders of the Deer Isle Silver Mining Co. will be held at their office, No. 85 Exchange St., Portland, on Wednesday, May 5, at 4 o'clock P. M. The stock books will be closed May 1st.

Blue Hill.

The mineral wealth of Blue Hill has attracted wide attention. In a comparatively brief time a radical change has been wrought and Blue Hill is now an important mining centre. The village of Blue Hill nestles at the foot of Blue Hill Mountain and at the head of Blue Hill Bay. The scenery is very picturesque. The town now presents a very lively appearance. The population has been largely augmented in the past few months. The hotels and boarding houses are filled and strangers are swarming there daily in large numbers.

Blue Hill is a veritable mining camp. Each morning and evening crowds are seen on the streets discussing the latest news from the mines. Owing to the scarcity of lumber little building has been done in the village during the winter but now with the opening of spring active operations in that direction will at once be commenced. Col. W. H. Darling is having the foundation laid for a handsome block on one of the principal streets. A large addition is to be built to the Copper and Gold Exchange Hotel. A great number of cottages and dwelling houses will be erected. The Mining Exchange of Col. Wm. H. Darling in Pendleton's block is spacious and handsomely fitted up and is a great centre for mining men. A large room over the Mining Exchange is being transformed into an office for several of the mining superintendents.

The mines of Blue Hill are generally making good showings. A prodigious amount of work has been done among them during the past winter and one who has been absent from Blue Hill for several months would now find very marked changes. The older mines are nearly all looking better than ever before while fresh discoveries are being constantly made and new mines opened.

DOUGLASS.—The mine sustains the high reputation it has en-

loyed in the past. Richer ore is now being taken from the mine than ever before. Work has been discontinued for the present in shaft No. 2 and the whole crew are employed in shaft No. 1. The drifts are so far extended that whenever it is desired one hundred or one hundred and fifty tons of ore can be raised easily in a day. Shaft No. 1 is now being sunk with the intention of obtaining another level. The present depth is rising 90 feet. There are now about 12,000 tons of ore on the dump. The mill is framed and will soon be ready for the machinery which will be shipped in a few days from the manufactory in Pennsylvania. The large boarding house is about completed and will be in readiness to be occupied in a short time.

ATLANTIC.—The property is one of the largest and most valuable in the great Blue Hill zone. The shaft was sunk vertically to a depth of 72 feet and a tunnel extending northward has been run something rising thirty feet. Work is being pushed in the tunnel under the auspices of Supt. Le Prohon. The great Douglass ore channel has not yet been cut, but some ore containing copper has been taken out of the tunnel.

CITY OF BOSTON.—The shaft which is of three compartments, each 4 1-2 feet in the clear, is 36 feet in depth, and is substantially timbered 20 feet down. The work has been done in a skillful manner under the charge of Mr. Timothy O'Connell, the superintendent, recently from Nevada. Several feeders showing considerable copper have been cut through. The shaft is being sunk rapidly. A hand-force and suction pump has been ordered.

BISBEE.—Work continues and the shaft has reached a depth of 55 feet. The vein which the shaft is expected to cut shows on the surface and is wide and heavily mineralized. The elevated position of the shaft near the top of a high hill gives splendid room for dumptage. The work of development has been conducted very economically.

EXCELSIOR.—The company is a live one and propose to develop their valuable property expeditiously. The property is situated east of the Bisbee and was formerly a portion of that mine. A boarding house is now being erected on the property. Steam machinery is to be secured immediately and the sinking of the shaft will at once commence.

BLUE HILL.—The sale to Boston gentlemen who are largely interested in Lake Superior mines has been perfected. Mr. B. O. Cutter has tendered his resignation as Superintendent and Secretary, Mr. John Merrill has been elected Secretary, and Mr. Moyle, of the Copper Falls mine at Lake Superior, arrives in Blue Hill this week to assume the Superintendency.

YOUNG HECLA.—Under the Superintendency of Mr. Duff of the Twin-Lead rapid work has been done and the shaft is now down 44 feet. The shaft is the same size as that of the Twin-Lead, and the buildings which will soon be erected will be similar in design to the tasty structures that adorn the grounds of the latter company.

TWIN-LEAD.—One is at once very favorably impressed with the general appearance of everything around the mine. Ground was not broken until the winter was well advanced, but work has progressed with great rapidity under the Superintendency of Mr. Charles Duff, a mining man of long experience among the mines of Nevada. The shaft is three compartments, two, 4 1-2 x 4 1-2 feet in the clear, and one 3 x 4 1-2 to be used as a ladder-way, and has reached a depth of 76 feet. Supt. Duff uses in hoisting, a whim which was constructed by himself after the style of the west. It is a clutch whim with compound lever brake and works very satisfactorily, a horse being able to raise 1000 pounds 84 feet in 35 seconds. The buildings are very unique and tasty. The shaft-house is 24 x 45 feet and is 32 feet high to the peak of the roof. The building has a four gable hip roof with cupola surmounted by a weather-vane consisting of a handsome game-cock. A carpenter shop 22 x 30 feet adjoins the shaft house on the west and a whim house 25 x 25 feet on the north. A plank sidewalk runs from the shaft

house to the road. Just across the road a tasty stable similar in design to the shaft house has been erected; it is 18 x 36 feet and one portion is fitted into an office for the Superintendent. The buildings have been erected under Mr. Duff's personal supervision.

FAVORITE.—Some surprisingly rich ore has been taken from the property. The interesting feature is that the shaft is being sunk on a vein several hundred feet north of any that has previously been developed upon the great zone. Prof. Stewart recently examined the property and made a flattering report. The shaft is 14 feet in depth and the vein which is eight feet wide on the surface contains peacock copper, copper sulphurets and argentiferous galena in large quantity. The ore taken out is very fine. Mr. C. A. Barrett is superintending the work.

BLUE HILL CENTRAL.—The shaft is being sunk on the crest of a hill. The ledge does not crop out on the property and the shaft which has reached a depth of 27 feet has not yet struck the ledge. Mr. C. A. Hanson is Superintendent and his experience in the mines of the West and in other lands fits him especially for such work.

STOVER HILL.—Work is progressing favorably. The tunnel on the 100 foot level is in 20 feet.

WHITE STAR.—The shaft has reached a depth of 20 feet. Mr. Timothy O'Connell has been appointed Superintendent. Funds for the continued prosecution of the work of development have been contributed by the stockholders.

GRANGER.—The mine is located but a short distance from the village of Blue Hill and directly opposite the steamboat landing. Col. Granger, an accomplished Boston gentleman, is Superintendent. A large prospect hole has been dug and a vein of considerable width, with well defined clay seams and very thickly mineralized with copper and iron has been found. The company is a very strong one, composed of prominent Boston capitalists. A twenty horse-power engine and two Burleigh compressors and drills will be used in the work of development. The company mean business.

BANGOR & BLUE HILL FALLS.—Work has been suspended and the shaft is full of water.

BAY VIEW.—A vertical shaft is being sunk and is now 28ft. 6 inches in depth. Mr. W. A. Pearson, formerly of Nevada, has assumed the duties of Superintendent.

EAST BLUE HILL.—Work is progressing and the shaft has reached a depth of 28 feet.

TRIO.—Mr. Simeon B. Smith has assumed the superintendency.

Blue Hill Neck.

From present indications Blue Hill Neck promises to be the scene of extensive mining operations. During last fall the existence of mineral wealth on the Neck was hardly thought of but during the winter months the rich discoveries along the shore caused no small excitement and at the present time there is hardly any land on the Neck not bonded, over one hundred properties being bonded at varying figures. Blue Hill Neck is distant from Blue Hill Village about three miles and is about five miles in length, extending southward to Brooklin. The road to the Neck leads over a small island and across two bridges beneath which the water rushes, excepting at extreme high tide with terrific force. The scenery on the Neck is delightful. To the westward is the Salt Pond while the eastern shore is bathed by the waters of Blue Hill Bay, and only a mile further to the east is Long Island and then towering above all come the peaks of the Mount Desert hills.

VICTORIA.—The property is located on the northwestern extremity of the Neck. Mr. Arthur Hunt has been working with a crew for a few days and obtained some very handsome silver ore. Some of the ore has been assayed by State Assayer Bartlett with the following result: Gold, \$12.57; silver, \$42.88; total, \$55.75.

PELICAN.—The same lead has been discovered on the Moulton property in the cellar of Mr. Moulton's house. A company is soon to be organized under the name of the Pelican Mining Company and developments will be prosecuted with vigor.

SILVER REEF.—Mr. Simeon B. Smith has assumed the Superintendency. A blacksmith shop has been completed and a stable will at once be erected. The shaft is down 12 or 15 feet and work will be pushed. A whim will probably be used in hoisting. Mr. Smith has had wide experience as a mining man in the mines of the far west.

REVERE.—A boarding house 100 feet in length is to be erected very soon for the use of the workmen. The shaft is now down about 17 feet and the Superintendent, Mr. Wilkie Darling, intends that the shaft shall sink very rapidly. There has been some delay waiting for lumber to timber the shaft. A small vein two feet in thickness and showing some good ore has been cut through in sinking. A vertical shaft is being sunk and drifting will probably commence at the depth of 100 feet, when the vein that crops out on the shore at low water will be cut. The surface croppings are silver and copper ore.

LADY ELGIN.—The property is located some distance to the southward of the Revere. A prospect hole in the centre of the large property exposed a large quantity of superior green carbonate of copper. The shaft is now being sunk close by the shore and a depth of 32 feet has been reached. Mr. Wm. A. Pearson has assumed the Superintendency.

DIRIGO COPPER.—The property adjoins the Lady Elgin and the surface showings are much the same. The work of development commenced this week.

CANDAGE.—Work has been in progress some weeks and the shaft is down 15 feet.

HAMILTON.—Work has been commenced this week. The formation at the Neck is very peculiar. Evidences of volcanic action are visible and a large trap dyke is said to exist in the vicinity of the Hamilton mine.

Acton.

ACTON CONSOLIDATED.—The organization of the Acton Consolidated Mining and Milling Company has been completed, and the following officers elected: President, Hon. Geo. P. Wescott; Vice-President, John S. Morris; Treasurer, A. A. Dennett; Secretary, Chas. D. Clark; Directors, Geo. P. Wescott, George Walker, Weston F. Milliken, James Bailey, John S. Morris, Chas. McCarthy, Jr., B. B. Rices, Jr., of Portland; Ferguson Haines, of Biddeford; Stephen Jennings of Bangor; Hanson Gregory, Jr., of Rockland; Frank B. Brackett, of Boston.

DIRIGO SILVER.—The Dirigo Silver Mining Co., (a Farmington, N. H. company) at Acton, from whose shaft recently Prof. C. H. Hitchcock obtained native silver, has again made a rich strike, finding at a depth of about 60 feet in the vertical shaft, about five feet below the foot wall of the vein, a richly mineralized spur of the east vein of the great bonanza vein of the lode, and they expect to reach the east vein at a short distance further. The Dirigo is located on the west division of Lot No. 14, so-called. The Dirigo is being placed on the Boston Stock Board list.—[*Argus*.]

ANDROSCOGGIN ACTON.—The Androscoggin Acton Silver Mining Co., of Auburn, Lot No. 15, next north of Dirigo, is about to begin operations. This is universally acknowledged to be one of the richest and most valuable lots in the entire Acton region, and the result of its development is looked forward to with great interest by those conversant with the Acton lode.—[*Boston Advertiser*.]

BULLION.—The Bullion have got their shaft down 55 feet and have three 8-hour shifts at work, and are sinking at the rate of three feet a day. The concentrating works will be on the ground the middle of May.—[*Argus*.]

LEBANON ACTON.—The Lebanon Acton mine is now down 32 feet, and working two shifts of ten men by day and eight by night, purposing to drive rapidly on a contract for 100 feet. The shaft is thoroughly timbered for 26 feet in three compartments, with a shaft house 30x20, 10 foot post, with a roof peaked 30 feet. A 12 h p engine with a 16 h p boiler furnishes the power for running an improved Higley Cornish pump, and bringing up the ore. The shaft has been crossed by several richly mineralized feeders, and the prospect is most encouraging. The vein has been uncovered for a distance of 30 feet about 15 feet west of the mouth of the shaft, which proved to be over 8 feet wide.—[*Boston Advertiser*.]

MINERAL HILL.—D. H. Smith, President of the company, has gone to the mine to make a contract to have the present shaft sunk to a depth of 100 feet.

DRIFTS.

BUCKSPORT CENTER.—It is understood that a company is about to be formed in Boston to commence work upon the property of Geo. A. Rich, Esq., of this place, which has been named the "G. A. Rich Mine." It is stated that some time during the past winter Prof. Hayes made assays of rock from this ledge, and found it to contain considerable gold.

CASTINE.—Mining and prospecting is all the rage. Our old citizens can hardly realize that this town is so heavily mineralized as it appears to be. Over one thousand acres have been bonded on the south side of the Bagaduce river. Opposite Castine there is hardly a farm on the Cape that does not show copper and silver veins. The property of Abner Gray is thought to be rich in minerals. Two veins, eighteen inches wide and about forty feet apart, have been discovered on it. E. C. Chatto is prospecting the Charles Black place and has found some promising specimens. I. J. Cousius has prospected a number of places, which he and others have bonded, and have discovered indications of rich deposits of copper and silver. These gentlemen will organize a company and commence operations very soon. North and East Brooksville also show good indications of a rich mineral deposit, and in the middle of the town, two miles or more back in the woods, veins of copper and silver are found. Old miners say the indications show richer than in Blue Hill. I. J. and Geo. E. Cousins have bonded the farm of Joseph Stover of Blue Hill which bids fair to be a valuable property. A company under the name of the Sylvester Silver Mining Company will soon be formed to operate on the five acre lot, known as Whitham and Sylvester's pasture. The property is now in possession of H. L. Macomber of Castine, and is situated between the two mines on Castine Head. The capitalization will be \$500,000 in \$1 shares with 100,000 in the treasury. The ore is said to carry copper, iron and galena.—[*Cor. Ellsworth American*.]

FRANKLIN.—The mine started by E. J. Swan of Franklin, the shaft of which is now 25 feet deep, has been named the "Frenchman's Bay Silver Mine." This mineral deposit is on the land of Wm. N. West, and the prospects are encouraging.

ADDISON.—Nash, Wass & Co. of this place have bonded some 6000 acres of mineral land in the vicinity, embracing 12 to 15 different leads showing galena and sulphurets of copper at the surface. Austin & Co. have also bonded 3500 acres and the surface showings are said to be fine.

STREUBEN.—They have commenced work on the Pillsbury Stevens mine this morning. The shaft is down about five feet. It has a good quartz vein of about five feet wide, and a mineral vein next to the hanging wall of one foot in breadth carrying copper and some galena and silver. We expect a number of other mines will be opened in this town the coming season.—[*Machias Union*.]

SULLIVAN.—Parties have leased the vein on the farm of J. S. and Josiah Bean, near the Morancy mine, and have commenced to sink a shaft. Report says that a fine quartz vein has been leased on farm of Eben Bean and work commenced with a fair showing of mineral. Many other places have been leased but no work is being done on them.—[*Ellsworth American*.]

SURRY.—Our conservative town's folks are trying their hand at drilling and blasting. The comical melody of the hammer and drill, resounds from every cardinal point. The philosophers of the pick are augmenting their ranks. Prospectors are roaming over the "rough-land of hill, stone and tree," scanning, with eagle eye, every ledge and crevice. Mantle-piece and window-sill are heaped up with mineral specimens, while the rocks which clutter up many a door-way, are without value or beauty. To the most of our people, unversed in mining and metallurgist art, the sorting, or naming of the metallic findings, is a more difficult problem than the "fifteen puzzle." Some, in the "school of experience," have learned, that arsenical iron shines like silver, that mica may be yellow like gold, and that lead, ready-made, is no product of nature. Nevertheless,

many promising veins have been sighted, and parties with no trumpet-tongued parade, are quietly sinking shafts to determine the character and quantity of the vein-matter. "Is it a pay streak?" is the question which takes precedence.—[*Ellsworth American*.

MT. DESERT.—Ledges, thought to be not only useless but a nuisance in our pastures are attracting the attention of California miners and experts who are surprised by the indications of mineral in them. The mineralized veins of the land of Horace Stanley, by assay of the surface ore, rank among the best in the State. L. B. Wyman of Ellsworth and W. E. Richardson of Tremont have leased this property and will soon sink a shaft. Gold, silver, nickel and copper are found on the land of Mr. Seth Hamor at Norwood's cove. Near this at Mr. Wm. Lawler's boat landing is a mineral which puzzles assayers. Some think it may be columbium, a metal discovered a few years since in this country by an English chemist and named by him in honor of Columbia.—Specimens of valuable minerals have been found in many places at South West Harbor, free gold, platinum, silver, copper, nickel and magnetic iron. The most interesting is the free gold in a vein of white quartz, on land of Seth H. Clark, near the steamer wharf. On boat days, that is, when the steamer comes in, a crowd of men gathers to see the little seam in the bank which surely contains *free gold*, of which some fine specimens have lately been taken out by Mr. Clarence Clark. California miners and experts in Portland after examining them cannot believe they were found in Maine. When the snow leaves there will be vigorous prospecting here, and we hope more permanent work will soon follow. H. H. Clark has a fine vein of quartz, about a quarter of a mile inland, which seems to be a continuation of the gold bearing vein. He will sink a shaft on his property when spring opens.—[*Cor. Ellsworth American*.

NORTH HAVEN.—North Haven is not free from the excitement which is prevailing throughout the State in regard to minerals. Good specimens are said to have been found on land of Samuel Y. Crockett, Hanford W. Beverage, J. S. Coombs, Geo. W. Cooper and others. Some of those from the farm of S. Y. Crockett have been assayed by Prof. Bartlett, who reported silver and nickel with traces of gold—in what quantities we are unable to state. Mr. Crockett, who has taken quite an interest in this matter, is going to ascertain whether there are minerals in paying quantities upon his farm, and is very confident of success.—[*Cor. Rockland Opinion*.

VINALHAVEN.—Work is progressing rapidly at the Island City Mine, and shafts are being put down and blasting operations carried on in every direction, in the vicinity. The people are jubilant over what they consider their rich mineral prospects.

ISLE AU HAUT.—Every man and boy you meet has his pockets full of rocks. Isle au Haut is booming, and prospectors are plenty just now. J. G. Goss, 2nd, has gone to New York with samples from his mine at the Isle au Haut. It looks very rich.—[*Rockland Opinion*.

ROCKLAND.—It is said that the most promising mineral discovery in the vicinity of Rockland, is on the premises of Adriel Fales and Sons, at the northern part of that city, on the shore of the bay, just north of what is known as the Cephas Starrett ship-yard. There are heavy and well defined silver bearing quartz veins running in a nearly east and west direction, from which pure and handsome specimens of silver-lead galena have been plentifully taken without blasting. An association has the property in charge and will organize very soon.—[*Exchange*.—The *Rockland Courier* says a new mining company is soon to be formed in that city. The property of the company is on Blue Hill Neck and the company will be known as the Peninsula Mining Company. Ex-Mayor Lovejoy is trustee of the stock.

WEST CAMPDEN.—On the northeastern side, about a mile from

the village, is located the A. R. Tolman mine. A company has been formed to work it, and they are making richer developments each day. On the adjoining farm Messrs. Waldron and Williams, the discoverers of the former mine, are opening a mine for Silas Carroll; it is a twin sister in appearance. These farms are situated side by side, next to the Rockland line and about six miles from the city proper. J. H. Andrews and sons have purchased an interest and have commenced work on the James Skinner place, on that side of the valley. A Benner has struck it very rich in the eastern part. G. T. Keller and sons are making the hills echo. J. Blood and sons are in the northwest, and have good hopes of rich developments. There are hundreds of other places where the surface indications are as good as on the claims already opened.—[*Rockland Opinion*.

LINCOLNVILLE.—On Monday last Hon. J. H. Martin of Rockport and M. H. Kiff, Esq., of Vinalhaven purchased 7-16 of the northern extension of a mining property, situated on land of E. C. Freeman, Lincolnville. The property consists of about 20 acres of land, with a white quartz vein running northeasterly and southwesterly, the vein being 28 feet on the surface and carrying large quantities of argentiferous galena and free gold. Mr. Kiff went to Portland Tuesday morning with samples, and he informs us that the Portland folks were completely astonished, having never seen such fine specimens brought from any section of the State. A company is in process of organization on the southern half of this property, and the club stock is being taken rapidly prior to organization of the company. Bel-fast parties have bonded the adjoining farms for about 1 1-2 miles towards French's Beach. Lincolnville at this time is the center of attraction for prospectors.—[*Rockland Opinion*.

ST. GEORGE.—Discoveries of minerals resembling gold and silver are reported from St. George, Knox county. Specimens have been sent away for analysis, and the results are anxiously awaited.

WALDOBORO.—A valuable mine has been discovered on the land of Alanson Achorn, about a mile above the depot. It is reported that the ledge contains a large percentage of lead, and a small amount of silver. J. T. Gray's grocery is the headquarters of those interested in mines and mining. He has samples of all the recent discoveries on exhibition.—[*Rockland Opinion*.

SOUTH WALDOBORO.—"Prospecting," the boys call it, when they go out with an old ax and commence to bang away upon a ledge in search of mineral. Wonderful discoveries are reported daily; yesterday *gold* was discovered in a ledge in James A. Sampson's pasture, and this morning we again hear the click of the maul. We all expect to be millionaires yet.—[*Rockland Opinion*.

ROUND POND.—Ephraim Thompson has discovered a mine of some sort in Mr. Davis Chamberlain's field. The mining mania has even got among the ladies. The other day we noticed some of the fair sex prospecting.—[*Rockland Opinion*.

MARTINSVILLE.—The prevailing epidemic, mining, has made its appearance, at last, in our wee hamlet. Mr. Charles R. Hupper has shown us some very fine specimens of quartz, which he collected on his father's farm a few days ago, containing we should suppose, large quantities of gold. As our geological ideas are limited, we dare not assert such a thing for a fact. Mr. Hupper has sent some specimens away for examination, and we impatiently await the result.—[*Rockland Opinion*.

BATH.—Bath, Maine, is wildly enthused over the alleged discovery of free gold in rich deposits at Boothbay by Dr. C. W. Price.—[*Boston Globe*.

WEST FALMOUTH.—Gold and silver has been discovered near Merrill's Saw Mill; surface samples assay second to none in the State.—[*Cumberland Globe*.

LITCHFIELD.—Mr. William Small, Jr., of Lewiston, has purchased the Edward W. Buker farm in Litchfield. The farm contains a mine, which Mr. S. thinks has gold in paying quantities.

and mining operations have been commenced by Mr. Small. Mr. Small informs us that Philadelphia parties have bonded seven farms adjacent to his, and propose to carry on extensive mining operations.—[*Lewiston Journal*.]

AUGUSTA.—There is considerable excitement in ward seven just now over the discovery of a silver mine on the farm of Daniel Savage. W. Hanks and W. E. Lowell, Esq., began to prospect a little yesterday with crow-bar and pick-axe. Mr. Lowell was the greenback candidate for Mayor at the municipal election this spring, but has no objection to owning a silver mine and becoming a bloated bonanza king.—[*Kennebec Journal*.]

WINSLOW.—A tin mine is now being developed in Winslow on the Kennebec. Dr. A. C. Humlin, of Bangor, is largely interested in it. We shall soon give additional particulars in regard to it.

FAIRFIELD.—Mr. Preston Woodsum thinks he has discovered a rich mine of copper on Newhall street.—[*Waterville Mail*.]

NEWPORT.—Something like a bushel of leases have been made of real estate in this vicinity. It is rather entertaining, on the whole, to see a person with an infinite amount of dignity but almighty thin wallet, around bonding farms by the dozen. A millionaire would not put on so many airs as some persons that might be named, if it would do any good.—[*Newport Times*.]

PISCATAQUIS COUNTY.—Mining Operations have been commenced in upper Piscataquis. Nathan Huff's farm in Shirley has been bonded, and eight men are working a shaft there. They are after gold. John C. Tripp has bonded the Drake farm in Elliottsville, having discovered silver upon it, and operations will be commenced soon. We understand, also that the old Guilford Silver Mine, which was abandoned years ago after many thousand dollars had been sunk, has been bonded by New York parties who will soon commence operations.—[*Dexter Gazette*.]

Nuggets.

Active mining operations are in progress at Long Island in Blue Hill Bay.

A large force of Swedes arrived at Blue Hill last week seeking employment.

Frank Candage fell from a staging in the Stover Hill shaft on Thursday and was killed.

The Gould Silver Mining Company of St. Albans will be organized in this city on Tuesday next.

Raymond Havey, while at work in the Ashley mine at Sullivan, was severely injured by an explosion, a few days since.

Dr. Yeaton has a mining property at Blue Hill on which he is sinking a shaft and has named the mine the City of Bangor.

The elaborate buildings of the Milton Mining & Milling Company of Sullivan were recently photographed by Marston, the well known Bangor photographer.

A rich discovery of silver ore has been made close by the steamboat landing at Blue Hill. The property is called the Red Jacket. Mr. Arthur Hunt is developing it.

The Sullivan Bulletin says: "The Cherryfield, Ellsworth and Sullivan Stage Company will make daily connections after May 1st with the Bangor stages going east and west."

Mr. B. O. Cutter is prospecting on the Gray farm at Blue Hill with the diamond drill. This is the first time the drill has been worked in Maine. A portion of the core can be seen at the MAINE MINING JOURNAL office.

A new mining company is in operation under the name of the "Deer Isle Annex." Their property is known as the Susan C. Eaton lot, a little south of the Deer Isle Mine. It is said they have a fine vein and work will commence at once.

Eight men from the tannery of Shaw Brothers, at Grand Lake, passed through this place Wednesday, on their way to Blue Hill, expecting to find remunerative employment in the mines there. They were a rough looking set of men, with their axes slung to their backs.—[*Machias Republican*.]

We have been shown some very handsome ore from North Castine. The vein crops out on the shore of Bagaduce River. The ore contains gold, silver, lead and copper, and the average of five assays is \$115. A shaft has been sunk seven feet on the vein, which is six feet in width, and six men are now employed pushing the work of

development. A company will soon be organized under the name of the North Castine Mining Company.

New Companies

Name of Company.	Location.	Date.	Capital.
Carroll Silver Mining Co.	Bangor.	April 2,	\$500,000
Curtis Copper and Silver Mining Co.,	Portland.	April 3,	500,000
Long Island Copper Mining Co.,	Portland.	April 6,	500,000
Clark Silver Mining Co.,	Ellsworth.	April 7,	500,000
Maine Acton Silver Mining Co.,	Biddeford.	April 8,	500,000
Franklin Extension Silver Mining Co.,	Portland.	April 9,	500,000
Franklin Silver Mining Co.,	Bangor.	April 13,	500,000
Gregory Copper Mining and Smelt'g Co.	Rockland.	April 14,	500,000
Union River Gold and Silver Mining Co.	Ellsworth.	April 19,	500,000
Trio Gold and Silver Mining Co.	Bangor.	April 19,	500,000
Eastern Silver Mining Co.	Bangor.	April 19,	500,000
Woodstock Gold and Silver Mining Co.	Lewiston.	April 20,	500,000

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 21, 1880.

NAME	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Azttec.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Atlantic L. S.....	20	20	20	20 1/2	21	20	19	20	20	20 1/2	20	20 1/2
Allouez.....	18	19	15	16	17	15	17	15	17	15	18	18
B. Antimony.....	28 1/2	29 3/4	31	27	31 3/4	35	33	40	35	37	35	37
Blue Hill Copper.....	9 1/2	9 3/4	9	9 1/2	9 1/2	9	9	9	9	9 1/2	9	9 1/2
Calumet & Hecla.....	250	249 1/2	250	250	250	250	250	250	250	250	250	250
Centrl.....	11	11	11 1/2	13	11 1/2	13	11 1/2	13	11 1/2	13	11 1/2	13
Copper Falls.....	11	11	11 1/2	13	11 1/2	13	11 1/2	13	11 1/2	13	11 1/2	13
Douglas.....	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3
Duncan Silver.....	19 1/2	18	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2	18 1/2
Franklin.....	22	22	22	22	22	22	22	22	22	22	22	22
Harshaw.....	7 1/2	7	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Huron.....	2 1/2	2	2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2
Mesnard.....	3	3 1/2	3	3	3	3	3	3	3	3	3	3
National.....	43	41	41	41	42	42	42	42	42	42	42	42
Oscoda.....	25	25 1/2	24 1/2	24	20 1/2	21	20	21	21	21	21	21
Pewabic (new stock).....	25	25 1/2	24 1/2	24	20 1/2	21	20	21	21	21	21	21
Phoenix.....	29	30	29	29 1/2	28 1/2	29	29 1/2	28 1/2	29	29 1/2	28 1/2	29
Quincy.....	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Ridge.....	15	15	15	15	15	15	15	15	15	15	15	15
Silver Islet.....	2	2	2	2	2	2	2	2	2	2	2	2
Star.....	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
Sullivan.....	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Waukeag.....	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 21, 1880.

NAME	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Acorn.....	14	15	13	14	13	14	13	14	13	14	13	14
Ashley.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Annabosc.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Atlantic.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Boston Acton.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Blue Hill.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Con Hampden.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Cherryfield.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Dartmouth.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Deer Isle.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Fairfax.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Fort Knox.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Gouldsborough.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Grant.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Harrington.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Home.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Milton.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Mineral Hill.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Norumbega.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Ow's Head.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Pelt's Menan.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Portland Acton.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Robert Emmett.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Stover Hill.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Sullivan.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Twin Lead.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Waukeag.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Young Hecla.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4

The successful merchant is one who cheerfully puts his name both on the front and back of an editor's paper.

ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Oct. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. Geo. Walker, Portland; Treasurer, A. A. Dennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.

IVORY LIBBEY, Supt.

ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Loughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Wintertop, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

SILEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Fairwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 Shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7 1/2 Lisbon St., Lewiston.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington; Treasurer and Secretary, E. C. Smart, Bangor; Directors, J. L. Hodsdon, Bangor, Geo. Brooks, Orrington, E. C. Smart, Bangor, H. P. Blood, Bangor, Geo. R. Smith, Hallowell.

BLUE HILL COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 33,000 Shares.
President, S. C. Blanchard, Boston; Treasurer, Thos. H. Lord; Secretary, John Morrill, Blue Hill; Directors, S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manchester, Emery.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden; Treasurer, and Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hucks, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles F. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BOSTON ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Dennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 Shares.
President, Henry L. Murch, Ellsworth; Treasurer, Alexander Fulton, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. March, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPTON SILVER MINING CO.,
Hampton, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 8,000 Shares.
President, Hon. F. M. Loughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

COMSTOCK SILVER MINING CO.,
Bucksport, Me. Incorporated February, 1880.
Capital, \$500,000; Shares \$2 each.
Office, 40 Water St., Room 46, Boston, Mass.
President, Hon. Wm. Wirt Warren, Boston; Treasurer, Oscar E. Doolittle, Boston; Secretary, R. B. Henchman, Bucksport; Directors—Hon. William Wirt Warren, Boston; Hon. Samuel B. Noyes, Boston; George F. Lopes, Salem; Wm. Reed, Boston; Samuel J. Noble, Boston; Dr. S. E. Thayer, Boston; George A. Morse, Boston.
JOHN ROBERTS, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 Shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Baney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Hucks, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING CO.,
Acton, Me. Incorporated, Jan. 1879.
Capital, \$500,000; Shares \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors, I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.
W. A. GOULD, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphath Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EDGEMOGGIN SILVER MINING COMPANY,
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. H. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardiner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meaher.
Office of Company, 98 Exchange St., Portland, Me.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1830.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hinckley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAAC S. GRANT, Supt.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 Shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Bym, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Wintertop.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FOREST CITY SILVER MINING CO.,
Acton, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Reddon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors, Hon. James Bailey, John E. Palmer, Charles M. Rice, Clark H. Barker, James K. Sturgis, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

RANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000; Shares \$5 each; Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dext. H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith. Office, No. 1 Pemberton Square, Room 4, Boston.

FORT KNOX SILVER MINING COMPANY,
Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass, A. R. FELLOWS, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Laffan, Jeremiah Wooster.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale, W. I. VALENTINE, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. ed.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggin, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin, WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.

LEBANON-ACTON SILVER MINING COMPY,
Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable, 100,000 shares in the treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Lighton; Secretary, D. F. Emery, Jr. GARDNER FLOYD, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoline, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. E. H. Swett, James W. Davis.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill. EDWARD B. SMITH, Supt.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester. SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAK, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAllister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAllister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 shares.
Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer, of Biddeford. JERE G. SHAW, Supt.

MINERAL HILL MINING COMPANY,
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me. Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler. WM. H. DARLING, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund Shares.
President, Weston F. Milliken; Treasurer, James L. Rackliff, Secretary, Chas. D. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman. W. C. Ricker. A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and G, 3d floor.
President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Dunclee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-sander Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp, July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett. P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 Shares.
President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor. H. M. BARTLETT, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington. B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell. W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols. E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith. RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey. CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable. B. P. TILDEN, Supt.

Stephenson & McKeever,

(Members N. Y. Mining Board.)

FINANCIAL AGENTS,

DEALERS AND BROKERS IN

Mining and Other Securities

No. 54 Wall Street, New York.

W. H. STEPHENSON. J. L. MCKEEVER.

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 Cashier Phoenix National Bank, New York.
 Cashiers of all National Banks in Portland, Me.
 Cashier Second National Bank, Bangor, Me.

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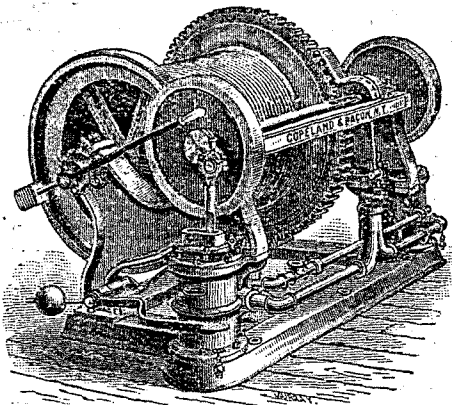
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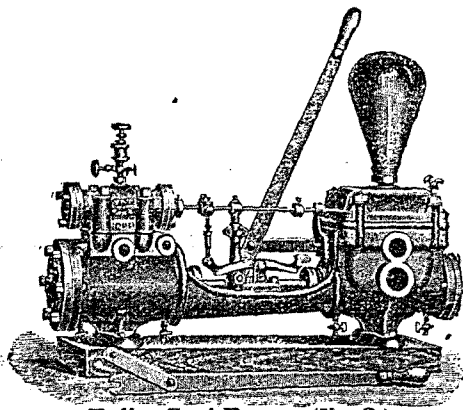
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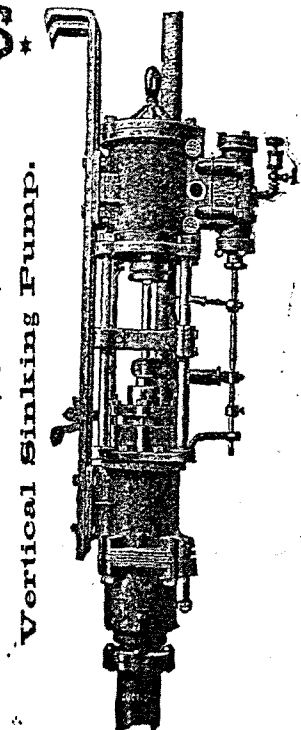
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Vol. I. No. 18.

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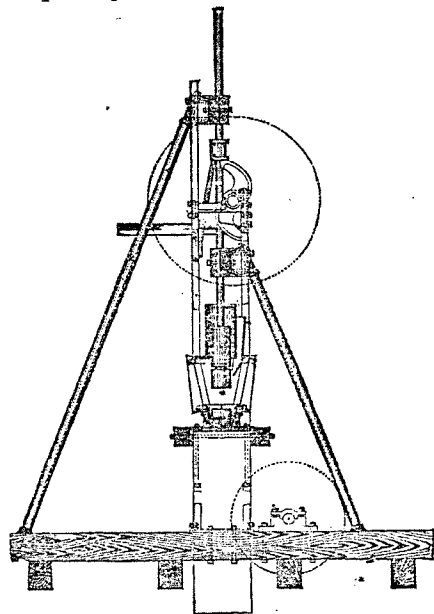
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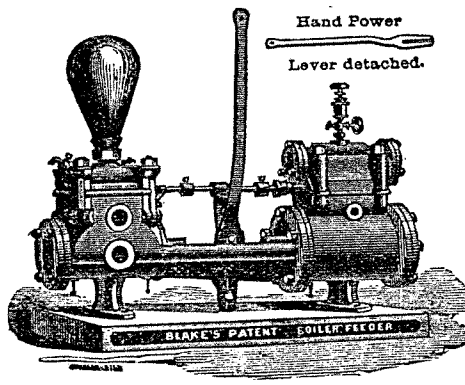
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BANGOR, FRIDAY, APRIL 30, 1880.

STOCKS.

The idea seems to prevail to a considerable extent, occasioned by the present depression and consequent low prices of mining stocks, that the bottom has dropped out of the Maine mines and that Maine mining has "gone to the dogs." We can assure those of our readers who are inclined to believe this to be the case that they were never more utterly mistaken. While some of the younger companies have suffered somewhat on account of the difficulty in disposing of their stock at what they consider a fair price, and the older ones have as a matter of course been somewhat vexed at the prices quoted, by far the larger amount of Maine stocks are held firm by the owners who show no disposition to sell; the quotations in a majority of cases being merely small lots bought for speculation, the holders of which have either become frightened at the weak condition of the market or are compelled by the state of their finances to dispose of it for what it will bring.

The mines have never looked so promising as at the present time; at no time since mining operations were commenced in this State has there been so much activity in the mining districts as now; on every hand new buildings are going up, costly machinery is being put in and additions are constantly being made to the working forces, while new properties with exceedingly promising prospects are daily coming into notice. Consequently, there is no cause for alarm, and if the existing depression shall have the effect to make capital more cautious and drive to the wall worthless companies which have no legitimate claims to public confidence, the ultimate result can be but beneficial to all concerned.

PROF. W. FRANK STEWART.

We have welcomed the *Economist* to our table as one of the most valued of our exchanges, and have noted with pleasure its able editorials and attractive make-up generally, but we are both pained and surprised to find in a recent is-

sue of that paper a most unwarrantable slur upon Prof. W. Frank Stewart, which touching as it does all who are interested in Maine mines, demands explanation. Prof. Stewart needs no endorsement by us or any one else in the Atlantic States; he is too well known and his reputation has been too long established in the land where he has resided for a third of a century; but he is too closely identified with the growth of the mining industry in this State, and the people of this section are too deeply indebted to him in many ways for us to look calmly on while attempts are being made to traduce him by journals or individuals who have any standing in society or whose positions are likely to give their opinions and expressions weight; consequently we feel that a considerable space devoted to the consideration of this subject will be appreciated by and of interest to our readers.

Prof. Stewart came among us a few months since an entire stranger. Visiting the East with the intention of delivering a series of lectures upon geology as applied to mining, and with the double purpose of awakening a more general interest in this noble industry and advancing the interests of his own State and the West in general, he was induced after lecturing in New York to visit Boston and deliver his lectures in that city. While there he met several gentlemen from Maine who were anxious to have some thoroughly scientific man upon whose opinions they might rely examine several properties in which they were interested, and at their urgent solicitation he came to this State and was so surprised and pleased at the evidences of mineral wealth shown on every side that he has remained until the present time, feeling that he had here a mission to perform in convincing the people of its reality.

During the short time Prof. Stewart has been with us, he has made many firm friends by his genial disposition, and won the esteem and admiration of all who have had the pleasure of his acquaintance by his apparent thorough knowledge of the subject which he has made a life-long study, his readiness to impart any information consistent with his obligations and his steadfast refusals to report upon properties otherwise than as his conscience and his judgment dictated. It is almost needless to say that the people of Maine have come to know Prof. Stewart, and that nothing which may be said by San Francisco, New York or Boston journals can injure in the slightest degree his reputation in this locality, but for the benefit of those who neither know him personally or by reputation, we wish to append a few of his many indorsements which we had the pleasure of seeing and noting down when he first came among us, which will serve to show the estimation in which he is held by his own people, both as a man and a scientist.

[From the San Francisco Daily Examiner.]

The people of Nevada, through their representatives in the different political conventions, required every candidate to take a pledge to enforce the collection of the full debt due the State from the mine owners. No candidate could have been elected if the people were in doubt of his honesty on that score. They all professed themselves sincere, and, as it turned out, were, in a considerable majority, false to their pledges. Among those who stood up in the face of flattery, financial force and fraud, and did his duty like a man, was the Democratic Senator from Storey county, W. FRANK STEWART, who is a credit to his party and an honor to the

profession of journalism, which he has pursued for years. The *Reno Gazette* speaks of his conduct in terms of high commendation, in which we cordially concur and transfer to our columns.

[From the *Reno Evening Gazette*.]

We want our people to remember the name and the man, for he occupies the position of Senator from Storey county, and yet votes for the State's interest. He is one of a rare class of legislators and pretends to understand his oath of office, and interpret for himself the pledges which he has taken. Every element was brought to bear on the old veteran, but to no avail; the whip was cracked about his ears, but he refused to be driven. The County Central Committee tendered him absolution, but he cast it aside with the contempt it deserved, and held to the strict line of his duty. Not content with passive action, he stood forth and in a masterly manner gave battle for what he considered right. He realized the opposition which he must meet, and knew the enmity which his course would excite, but he also knew the right, and dared to stand forth and give a word in its favor; he had the ability to see the truth and courage to maintain it. SENATOR STEWART is an honored member of the *Pacific Coast Pioneers*. In pioneer times he helped to discover this country, and make it and its treasures available to all men. The other day he stood forth, perhaps the poorest in purse, yet a millionaire in integrity and manly purpose, to give an honest word for his people. He was every inch a veteran as he met the frowns of his opponents, and we doubt if he ever bore himself more proudly while fighting with the stars and stripes in Mexico than when he held the Senate floor on Saturday in defence of principle and voiced an eloquent plea for the public weal. That plea had no foundation in ulterior motives, and by its vigor and ability stamped SENATOR STEWART as a man upon whom the State may depend for right, justice and the protection of her laws.

[From the *San Jose Herald*.]

What the *Gazette* says about FRANK STEWART meets the hearty endorsement of the people of this community, and were they his constituents, would testify their approval in a most substantial manner. There are very few of the old-timers in California who do not know MR. STEWART personally or by reputation, and they know that one of his strongest characteristics is to never let up on a thing he thinks is right. He is a man of rare intelligence and very capable of distinguishing right from wrong. He is careful in making his conclusions, but when once formed, no personal consideration can influence him to depart from them. We congratulate Nevada in having MR. STEWART in her Senate, and would remark in passing, that, if she has any other work that requires skill, capacity and a never-failing perseverance, she had better secure his services.

[From the *Virginia Enterprise*.]

PROF. W. FRANK STEWART is preparing to go to the Atlantic States to lecture on mines and mining matters. *

* * * * * Having been for half his life in the midst of the mines of California and Nevada and having made them his study for all these years, the Professor has everything pertaining to them at the tip of his tongue. He is able to begin at any point and talk in any direction. Persons in the East desirous of obtaining mining knowledge may jump him up on anything pertaining to the mines or geology of the Pacific coast, and they will find him able to give them all pertaining thereto as readily as though he had been requested to prepare a lecture on that particular point months beforehand. Coming to them fresh from the midst of the mines, and, as we may say, straight up out of the ground, PROF. STEWART should be able to give the New Yorkers and the people of the East generally, a more instructive and interesting talk on mining and geological matters than any of the men who merely talk what they have

read in books, with perhaps, some vague theories of their own to unite and round up the discourse.

VIRGINIA, Aug. 5, 1879.

To the Hon. W. Frank Stewart:

Dear Sir—We, the undersigned, residents of Storey County, State of Nevada, learning of your contemplated departure for the eastern States for the purpose of delivering a series of lectures on the mines and the mining interests of our State, respectfully request (if convenient before your departure) that you once again favor our citizens with a lecture upon our mines, their past, present and future, and such other subject matter as will be advisable in regard to their workings, etc.

JOHN W. MACKAY,
JAMES G. FAIR,
C. C. GOODWIN.

ROBERT E. LOWERY,
R. A. TAYLOR,
GEO. A. KING.

H. H. PENOYER,

Supt.

W. H. PATTON,

E. D. BOYLE,

CHAS. FORMAN,

S. L. JONES,

D. H. JACKSON,

P. DEIDESHEIMER,

W. H. SMITH,

S. J. CURTIS,

M. CANAVAN,

J. P. KELLY,

M. C. HILLYER,

THOS. H. ROONEY,

W. B. SHEPHERD,

And many others.

{ Best and Belcher,
Gould and Curry,
Osbiston.

{ Union Con.,
Mexican,
Ophir,
C. and C. Shaft,
California,
Con. Virginia.

{ Benton,
Alta,
Lady Washington.

{ Overman,
Caledonia,
Forman Shaft.

{ Crown Point,
Kentuck,
Flowery,

{ No. Bonanza.
Hale & Norcross.

{ Belcher.

{ Justice.

{ New York.

{ Savage.

{ Silver Hill.

{ Union Shaft.

{ Utah.

[From the *San Francisco Stock Report*.]

The *Daily Stock Report* accords a hearty endorsement to the PROFESSOR, and recommends him to the kind consideration of the people of the Eastern States. We know him to be not only a learned man in the subject which has been the specialty of his life, geology, but also a practical miner in all the various classes of mining, and an honest and reliable man in the bargain.

EXECUTIVE OFFICE.

CARSON CITY, NEV., Aug. 15, 1879. }

Prof. W. F. Stewart:

My Dear Sir—Learning that you are about to depart upon a lecturing tour in the cities of the Atlantic States, in which you propose to discuss especially the mineral resources of this State, I take pleasure in saying that I know of no citizen of this State or coast more thoroughly qualified by study, experience and observation to entertain and instruct those who take interest in the development of our mineral wealth than yourself. You have my hearty sympathy in the success of your tour, the result of which I trust will be to awaken and stimulate increased and permanent interest in what is as yet an almost unknown field of exploration, and the results of which are hardly realized by the general public. * *

Wishing you a full measure of success, I remain,

Yours Very Truly,

JOHN H. KINKHEAD, Gov. of Nevada.

[From the New York Mining Record.]

We had the pleasure last Tuesday night to hear PROF. W. FRANK STEWART lecture at the Brighton Beach Hotel, before the New York Mining Stock Exchange and their guests, and again on Thursday night, in this city, at the rooms of the Bullion Club. His theme on both occasions, mainly, was the manner in which mineral deposits arise. To so interesting and instructive a subject, as treated by him, we never had the good fortune to listen, and we believe no one heard his lucid lecture, without genuine pleasure or without carrying away a mass of useful information not quickly forgotten.

PROF. STEWART is here in the east for the purpose of delivering a connected series of lectures upon the electrical phenomena of the earth, as generally connected with the formation of mineralized veins, and kindred scientific topics; also specially about mines and mining as carried on in Nevada and California. The Professor has resided continuously in the mining districts of these two States for thirty years, and has had peculiar opportunities for scientific observation and for reaching accurate conclusions. We sincerely bespeak for him large and numerous audiences, assured that he will give valuable information in a most agreeable manner.

[From the Boston Economist.]

PROF. STEWART's lectures on mines and mining in this city, proved fully as instructive and entertaining as we assured our readers they would be. The Professor treats his subject largely, yet the general theory he advances is held with a firm grasp and a clear comprehension.

No one could have closely followed him along through his statements, before which ordinary romance pales and fades, and accompanied him through the enunciation and elucidation of his theory without becoming convinced that mining was no longer a mere gamble for such as had a fancy that way, but had come to the front as one of the leading productive industries of the country and the age, by whose timely aid more than one perplexing national problem was to be happily solved.

[From the Economist.]

We have not the space this week to publish the different reports from the Maine mines, but they continue to be of a very favorable character. PROF. STEWART, of Nev., now in Maine, endorses the views of the ECONOMIST, that while the ore in that district may not be very rich it is to be found in sufficient quantities, taken in connection with the low price of labor and the facilities of transportation, to pay a good profit. He was especially struck with the value of the copper deposits at Blue Hill and vicinity.

The Ellsworth Silver Mine.

We are constantly in receipt of communications from parties desiring information about the Ellsworth Silver Mining Co. We have nothing further to say concerning it than appeared in our issue of April 9, except that the people of Ellsworth and the public generally are at a loss to understand the propriety of capitalizing to the extent of a million dollars and offering for sale at three dollars a share, a ledge which so far as outsiders are aware has as yet failed to show anything in the shape of mineral (beyond a trifling amount of iron pyrites) or even anything which bears the slightest resemblance to a vein. If people are silly enough to be taken in by the representations of the company without taking measures to ascertain the truth of their statements, they can blame no one but themselves. As a matter of some interest we copy the following advertisement from the Boston *Daily Globe*:

THE ELLSWORTH.

Notice is hereby given that the Directors of the Ellsworth Silver Mining Co. have ordered an advance from \$2.50 to \$3.00 per share on the balance of the limited amount of Capital Stock remaining unsold from and after the 26th inst. All persons intending to purchase at the first-named price must do so on or before that date.

On the 7th inst., the president visited the mine, at Ellsworth, Me., and saw ore blasted from its shaft, at 17 feet from the surface, an average specimen of which assayed 244.5 oz. silver per ton, valued at \$278.73. The vein at that depth showing more than eight feet in width, and in length over 1800 feet.

These considerations together with reported improvements in the character of the ore at twenty-two feet depth, the directors believe, demand this advance.

All checks should be payable to

W. H. HARRINGTON, Treasurer.

SAMUEL B. KROGMAN, President,
235 Washington Street, Room 9.

Special Notice.

We are requested by PROF. STEWART and MR. THOMAS CAHILL, Assayer, to say that all statements purporting to come from them are entitled to no credence whatever, unless appearing over their signatures.

Personals.

PROF. F. L. Bartlett was in the city the first of the week.

PROF. W. F. STEWART arrived in Bangor on Saturday last.

MR. ISAIAH S. EMERY, of the Maine Mining Exchange, has been in Boston the past week.

FRANCIS WORCESTER, Esq., of Ellsworth, will soon remove to his summer residence at Sullivan.

MR. J. H. HUTCHINSON has been appointed Superintendent of the Portland Sullivan mine at Sullivan.

MR. R. O'ROURKE, a Nevada miner, has been appointed Superintendent of the Stover Hill mine at Blue Hill.

MR. THOMAS DALBY, of Boston, has recently been on a visit to the mines of Sullivan, Gouldsboro and Cherryfield districts.

MR. DAVIS, of the Blue Hill Mining Exchange, has been in Boston several days disposing of one of COL. DARLING's valuable properties at Blue Hill.

MR. WILFORD was expected at Gouldsboro this week to locate the Bradford concentrating mill which FRANCIS WORCESTER, Esq., is to erect in a few weeks.

MR. JOHN S. MORRIS, of PORTLAND, and MR. S. Z. DICKSON, of Virginia City, Nevada, have been on a visit to the mines of Blue Hill, Sullivan and Gouldsboro during the past few days.

MR. GEO. D. HOLT, of Silver City, Nev., recently Supt. of the Niagara and other mines on the Comstock, has been engaged to superintend operations at the Lawrence mine in Hampden.

On Thursday of last week PROF. W. F. STEWART and WILKIE DARLING, Superintendent of the Revere, were thrown out of a carriage in Blue Hill by one of the wheels getting suddenly stuck in a bad mud hole. The Professor was considerably shaken up and Supt. Darling considerably injured.

MR. EDWARD WORCESTER, 2D, passed through Bangor early this week on his return to Boston. He has been on a visit during the past month to the residence of his father, FRANCIS WORCESTER, ESQ., of Ellsworth and is now to resume his connection with the Walworth Manufacturing Co., of Boston.

MR. CHARLES W. STEWART, a brother of PROF. W. F. STEWART, was last week admitted to the bar of Hancock County and will at once open a law office at Blue Hill. MR. STEWART is a gentleman of pleasant address and marked ability and is sure to meet with success. He has for several years been an attorney and journalist in the State of Wisconsin.

The Rise and Fall of Solomon Bubbles.

HIS RISE.

O, no pen can describe how my poor brain does reel,
At the visions of money untold
That must surely be mine, if those glittering lumps
In this box, when assayed, should prove gold.
If so proved, no more work, which I always despised,
But a life of sweet pleasure and ease;
From the ills of the poor man henceforth I am free,
I can come or go, as I please.

And a season of rest for the hard working wife,
Whose affection for me ne'er grew cold,
And our board shall be spread with rich dainties so rare,
And we'll drink from a chalice of gold.
And we'll live in a mansion so costly and fine,
Make a tour round the world, other countries to see
And "The rich Mr. Bubbles," I then shall be called;
But woe to the man who says, "Shoddy," to me.

And my daughters shall each wed an earl or a prince,
An archduke, perchance, or a king he may be:
And a title for each of my sons I shall buy,
For the money, you know, will be plenty with me.
And ambition keeps pace with my increasing wealth,
So as soon as I have a few thousands to spare,
I shall buy up all the Supreme courts,
And I'll sit in the President's chair.

But no second or third term will satisfy me,
And I'll manage all that without strife:
A fat office to all the political sharks,
Will make me Kaiser Bubbles for life,
Kaiser Bubbles the First, in a great dynasty,
O, what visions of glory unfold
To my rapturous gaze; and I'll fulfill them all,
So great is the power of gold.

HIS FALL.

Alas, disappointment's the lot of mankind!
My hopes lie in ruins, my happiness fled;
And a poor man the rest of my life I must be,
For my mine is neither gold, silver, copper nor lead.
How bitter to think I was so self-deceived,
And hugged the delusion so close to my heart;
"Assayed and found worthless," and all those bright dreams
Of the future for me, must forever depart.

There's a comfort in thinking, I'm not the first man,
And shall not be the last, who has made a mistake,
And all bubbles whatever their nature may be,
When inflated too much, will most certainly break.
But a bright little thought flashes now through my mind
Like a glimmering star in the darkness of night;
I'll sell out to the firm of Blow, Bondup & Cheatern,
And pocket the money with quiet delight.

—[Rockland Opinion.]

Dips, Spurs and Angles.

The jewel for a shirt bosom is a diamond in the ruff.

Edison's electric, even if it succeeds, will be but "the light of others' daze."—*[N. Y. Daily News.]*

Moses was the first miner on record. He climbed a mountain and viewed the landscape ore.—*[Boston Globe.]*

Boston is called "The Hub of the Universe," for it is there people live and move and have their beans.—*[N. Y. Daily News.]*

Congressman Cannon of Utah is the husband of six wives and the father of 27 small boys, each one of whom is a son of a gun.

The difference between the man who digs in the ground and one who digs in books is that the former digs for hire and the latter for lore.—*[Exchange.]*

An awful warning comes from Oroville where the town undertaker fell and broke his leg while burying a Chinaman. If people will patronize the Chinese, they must take the consequences.—*[San Francisco Stock Report.]*

Is there no desirable or profitable occupation in which the Chinese will not crowd, to the detriment of the honest workingman? Here several Chinese tramps have been discovered in the Napa Valley.—*[San Francisco Stock Report.]*

A wealthy and eccentric rancher in Australia recently paid \$35,000 for a cow. There are brokers in this city who would see that and go a thousand or two better for just the right kind of a bull to pasture on Pine street.—*[San Francisco Stock Report.]*

The mining interests of Maine are attracting a good deal of attention among eastern capitalists and it is expected that it will be the field of labor the coming season for hundreds of practical miners from the western mining regions.—*[N. Y. Daily Graphic.]*

"I declare, Jane, it's too bad; you ought to look out for the children's clothes better. See Jack's pants now. Why, if he should sit down in an open work cane seat chair, he'd take his death o' cold." And that evening saw Jane closing up the draft, healing up the breeches.—*[New Haven Register.]*

Prof. Agassiz, of Boston, has become a rich man through the Calumet and Hecla copper mines of Lake Superior. His income for months past has been \$2500 a day. Within ten years he has given to Harvard College \$230,000. He is President and shareholder in these mines, and is devoting most of his time to their development.—*[Exchange.]*

Reckoning nickel at \$2 per pound, the five cent piece is worth a cent and a quarter. It weighs 77 grains and a fraction. The proportions in the composition of it are 75 per cent. of copper and 25 per cent. of nickel. Copper is reckoned at 43 cents per pound. If then a nickel five cent piece is lost, the government clears three and one-half cents on the issue.

Two hundred years ago the shaft of the turquoise mine in Calchuti Mountain, New Mexico, caved in and a hundred Indians at work below were killed. The Spaniards tried to force the Indians to work the mine, and the result was a rebellion and the expulsion of the Spaniards. Now some American capitalists are about to open the mine, which is the only one of its kind on the continent.

The game of Smith was saved, as Prentice Mulford says, by Pocahontas tramping her father's club with a soft heart.—*[Free Press.]* It is doubtful, however, if Pocahontas ever did anything of the kind. History says, when the crisis came she threw up her hand.—*[Richmond (Va) Baton.]* Not the whole hand, however. History informs us that she saved her Jack.—*[Boston Globe.]*

An extensive district of tin ore is reported to have been found some fifty odd miles southeast from Sonora, in Mexico. The largest ledge will be on an average about twelve feet wide, and has been traced a half mile. Assays made at Tucson, by Professor Richards, give sixty-five per cent. of tin. These ledges have been detected over a district of five miles, about thirty miles from the Gulf of California.

The following is a sample of the tales they tell on us in the East: "A tenderfoot lately arrived in Leadville, in eating a plate of hash at a restaurant, being very hungry, neglected to chew it properly and swallowed a large coat button. They doctored him for pneumonia three days before he was able to explain. Then they fed him a big button-hole tied to a string and fished it out in no time. He now screens all his hash through a cane-bottomed chair before eating."—*[Leadville Chronicle.]*

A cubic inch of gold is worth \$210; a cubic foot \$362,880; a cubic yard, \$9,797,762; valuing it at \$18.69 an ounce. At the commencement of the Christian era there was in the world \$427,000,000 in gold, but had diminished to \$57,000,000 at the time America was discovered. It then began to increase and the amount of gold now in use is estimated to be \$6,000,000,000. Yet all this, welded into one mass, would be contained in a cube of twenty-six feet.

The writer of a letter published in the Bradford (Pa.) *Era* says that in a short walk through that rapidly-developed oil centre, he noted the following signs in the order given: "Saloon," "Lager Beer," "Lunch Counter," "Saloon," "Wholesale and Retail Liquor Store," "Gun-Shot Lee, Chinese Laundry," "Saloon," "Dress-making," "Saloon," "Lunch," "Saloon," "Plain and Fancy Sewing," "Saloon," "Lunch," "Cloakmaking," a barber pole, "Saloon," "Laundry," "Rochester Lager," "Cigars & Tobacco," "Saloon," "Lunch," and so on, street after street.

A new miner's lamp has been invented in England, which, if it be adequately luminous, ought to be absolutely safe. The principle of the contrivance is the substitution of the light of phosphorescence for positive ignition and the apparatus is described as being something like a tiny meat screen. The interior of the screen is covered with a brightly luminous paint, and it is even proposed to fit it up with a shelf or two, so that the pitman might carry in his lamp something to eat whenever, during the intervals of work, he felt hungry. Of course it will be impossible to use this sort of lamp as a pipe lighter, so that it is not at all likely, if it comes into general adoption, that its inventor will be very popular among the colliers.

The yahoos on the outside who believe that Colorado is populated by the dregs of society are sadly in error. Jesus is herding cattle in the San Luis valley, Moses is conducting a three ball shop in Denver, Matthew sticks type in Alamosa, Mark operates a butcher shop in Ouray, Luke is prospecting in the Elk mountains, John

is editing the Register-Call, Solomon is on the night shift in the Poughkeepsie mine, Martin Luther owns a gin-mill in Leadville, Calvin presides over a buzz-saw in Rico, and David, well—David, the sweet singer, has kind o' dropped on this woman business, and gone to running the Muldoon—\$3 a year and glue.—[*Muldoon*. And David might add that Christ is running a furniture store in Golden, and Peter is mining engineer at Alma being the *Gaynor* thereby whether he goes out and hangs himself or not. James is city editor of the Denver News, and a good one withal.—[*Colorado Transcript*. There must be some mistake about Christ. He is very assiduously working the Lost lode in this county.—[*Colorado Miner*.

He was evidently a "tenderfoot," but as he stopped before an old miner and held out a piece of micaceous granite for his inspection, he made a strong effort to look as if he had been born with a contempt for civilization, and that feeling had been steadily growing on him ever since. "What do you make this out to be?" he asked, indicating the specimen with a nod. "Humph!" was the expressive answer. "Gold quartz or carbonates?" The "honest miner" turned it over in his hand indifferently, took out his knife and picked at it for awhile, and then asked: "Got much of it?" "Thousands of tons," answered the other eagerly. "How much do you suppose she'll run?" "Can't tell nuthin' without an assay." "But you can guess can't you; you can guess?" "Oh yes," answered the barnacle, "anybody can guess, but a guess is liable to be extravagant. Now, I shall say—but, mind ye, I may go over the mark—I should s-a-a-y (turning the specimen over and over again and holding it up to the light) I should s-a-a-y that if ye can save the gold in this and catch the silver, and not waste the lead, that it might run about—well, about \$2 to the county."—[*Exchange*.

A remarkable example of presence of mind is reported by the Nevada City (Col.) Transcript. A miner named Kirschbacker had put in a blast at the bottom of a shaft, which is eighty feet deep, and after lighting the fuse, gave the men at the windlass the signal to "hoist away." When the bucket in which he stood had been hoisted to a point about thirty feet from the surface, a splice in the rope gave way, and Kirschbacker was precipitated a distance of fifty feet straight down into the lower depths. Strange enough the fall did not render him insensible, although he was stunned for an instant, and an ankle was dislocated, and other slight injuries were received. Almost as soon as his downward course was checked he realized the fact that but a few moments would elapse before the explosion of the blast, which would certainly kill him. He managed to draw himself to the place where the fire was creeping down to the heavy charge of powder beneath. Grasping the burning fuse, he summoned up his remaining strength and drew it out from the tamping. His companions on the surface were in an agonizing state of suspense for a few minutes. When several moments had elapsed and no explosion followed, they started down for the purpose of getting the remains of the victim, who they supposed had been dashed to pieces. Their surprise and joy were unbounded at finding him alive.

Words of Wisdom.

Prof. W. F. Stewart prefaces one of his recent reports with the following:

The actual discovery of deposits of gold and silver, in remunerative quantities, produces an amazing psychological effect upon all manner of people. It excites a peculiar species of mania which is sometimes difficult to distinguish from downright insanity. Like the invisible breath of a pestilence, it attacks mankind indiscriminately, and its bewildering influences effect, with equal force, the stolid Mongol, the mercurial Gaul, the phlegmatic Teuton and the inventive Yankee. The discovery of gold in California resulted in a metallic frenzy, and for nearly the third of a century, millions of auro-maniacs have literally thrown away their lives in the fruitless pursuit of a gilded infatuation. Of the vast multitude of adventurous Argonauts who swarmed to the shores of the Pacific in 1849 "in search of the golden fleece," it is safe to assert that not one in every score realized a tithe of his glittering expectations. The same may be said of the struggling hosts who have toiled wearily and incessantly in the land of sagebrush and silver. In view of this disheartening history, it is not at all surprising that many of the staid, conservative citizens of New England, should become alarmed at the very announcement of a local metallic discovery, the like of which has resulted in so much mental and bodily suffering in other portions of the Republic. With a vivid recollection of the brain-bewildering gold-fever which pervaded the nation some thirty years ago, it is not wonderful that many cautious old residents of Maine should speak sorrowfully of their fellow citizens who already present the dazed look and restless mien of the infatuated treasure hunter.

That thousands of men in the New England States—especially in Maine—have become unduly and unreasonably excited over the recent discoveries of gold and silver, is

painfully apparent. A mournful proof of the new-born frenzy rests in the fact that hundreds of laboring men, with limited means, will persist in wasting their time, labor and money upon valueless mine locations. Many an one of these new fledged prospectors, who are utterly ignorant of even the elementary principles of geology and mineralogy, will hastily squat on a protruding trap dyke, proceed to develop the "find" by excavating a shallow potato-pit, and if he is so fortunate as to encounter a stringer of mundic, or fragment of copper pyrites, he at once imagines himself a Bonanza king. A man of this caste, were he really sane, would surely know that such work is not mining, but simply the antics of a zany; and he would learn how to profit by the time-honored adage that "all that glitters is not gold."

That Eastern Maine abounds in splendid deposits of the precious metals, is now an established fact; and that such deposits can be mined remuneratively, does not admit of a doubt; but this region also contains innumerable deposits of base metals, which are utterly valueless, and people who are inclined to meddle with mining business may as well learn, first as last, that sulphuret of iron is not gold, mispickel is not silver and a shallow hole in the ground is not a mine, by a long shot.

"It takes a mint to work a mine." This is a trite old saw, but it hits the truth for all that. It requires capital, skill, and experience to run a mine successfully, and any attempt to manage the business without these necessary adjuncts will end disastrously.

I am aware that the foregoing remarks are better calculated for the pages of a magazine than for a mining report, but they may serve as a warning against the danger of "wild cat" mining enterprises in Eastern Maine.

Ladies' Mining and Stock Exchange.

Our New York correspondent writes of a pleasant visit he recently made to the Ladies' Mining and Stock Exchange, at No. 14 East Fourteenth street, New York. He was there introduced to Miss C. A. Blodgett, who has achieved an enviable reputation as a good judge of rock, and who can talk with ease and grace of the dips, spurs, and angles of a vein of ore, as well as of the shafts, drifts, and levels of a mine, and with no mean judgment does she express herself as to the proper and most judicious course to be pursued in conducting a mining property for the benefit of stockholders. Associated with Miss Blodgett in this exchange are Harriet A. Keeler, Hope Whipple, Etta S. Farrar, and Kate Stanton, all ladies of decided intelligence, and who study very patiently the various changes in the manipulation of a stock, or the change of vein matter in a lode. These ladies have nice rooms fitted up, and are supplied with stock indicators connecting with the Mining Board on Broadway and the Stock Exchange, and arrangements are being made for the addition of a large cabinet of minerals. These ladies exercise considerable shrewdness in their transactions, making the most minute inquiries into everything they undertake, and their integrity is beyond all question. At the time of his visit he found several ladies discussing a certain stock, and the advisability of purchasing some. A most salutary lesson could be derived by our stock brokers from the cool and considerate manner in which the pros and cons of the subject were treated. Many ladies purchase stock and invest money through the Ladies' Stock Exchange, and when their new cabinet of minerals is completed it will be an object for instruction, as well as profit, for the gentler sex.—[*Mining Review*.

A New Mining Enterprise.

A large mining enterprise, in which some Belfast gentlemen, prominent in mining, are interested, was organized at Cherryfield, Washington county, on Tuesday and Wednesday of last week, under the title of "The Bassick and Hamlin Prospecting,

Mining and Milling Company." The parties at present interested are E. C. Bassick (of Colorado fame,) Samuel R. Chase and Manly E. Dodge, of Belfast, Geo. L. Merrill, of Searsport, Samuel Jellison, J. H. Hamlin and Charles Sturgis, of Cherryfield, J. A. Smith, of Harrington, and E. L. Plummer, of Jonesport. The officers are as follows—President, Geo. L. Merrill; Vice-President, J. H. Hamlin; Secretary, Chas. Sturgis; Treasurer, Samuel R. Chase; General Superintendent, Samuel R. Chase. All the nine members are directors. The company has a capital stock of \$18,000, of which \$10,000 is now paid in. They propose to operate in eastern Maine, prospecting, opening new mines and developing the mineral resources of that section. They have bonded, for three years time, 65,000 acres of land in Jonesport and neighborhood, including 87 islands on the eastern shore of the state. This large tract takes in several townships, but is sparsely settled on the main, while the islands are mostly uninhabited. The company have raised a fund, and under direction of Mr. Samuel R. Chase, of Belfast, they will prospect that land this summer. New mines will be opened when discovered, and will be stocked and worked, if suitable. The owners assure us that there will be no "wild-cat schemes" in this affair. No stock has yet been put upon the market. Messrs. Bassick and Chase have lately done some prospecting in the bonded region, and, from numerous assays that have been made, the prospects are very flattering. The ore is copper and silver; free gold has also been found within half a mile of their land. The two gentlemen, just named, have much faith in the mining prospects of Maine. It would seem that Washington county is likely to rival Hancock in the number and value of its mines. Mr. Chase leaves this city next week, and will commence prospecting and developing, with a large force of men. —[*Belfast Age*.]

The Famous Vershire Mine in Vermont.

A correspondent of the Boston Herald gives the following interesting description of the Vershire mine in Vermont:

"The mining excitement, as regards New England, is so largely centered in the state of Maine that we are apt to forget that there are other states whose mineral wealth is as yet practically undeveloped. In Vermont, for instance, there is found a great diversity of rock and mineral wealth, and, while the granite and slate quarries, copper mines, etc., have for years given rich returns, there is a notable lack of "wild cat" booms, such as have stirred up many communities, though all the while the mineral wealth of Vermont has been demonstrated to be great.

Take the Ely mine, for instance, the Calumet & Hecla of New England, though unlike the Calumet & Hecla in that not a dollar's worth of the stock can be bought. This Ely mine was formerly known as the Vershire copper mine, being located in the town of Ely, whose name was recently changed from Vershire in honor of the President of the Vermont Copper Mining Company, Smith Ely. It is located in the town of Ely, about two miles west of West Fairlee village, and 10 miles from the railroad station in Thetford, on the Passumpsic railroad. The mine is owned and worked by the Vermont Copper Mining Company. Over 60 years have elapsed since the first discovery of copper ore at this place, and yet the yield of copper was never so large as it is at present.

The curiosity of the people was excited by the decomposing sulphurets of iron and copper at the surface and excavations were made to ascertain the cause, and, upon reaching bed rock iron and copper pyrites were found. A farmer's company was formed and mining began, but, owing to the inexperience of those engaged very little ore was obtained. Then Col. Binney of Boston and Isaac Tyson of Baltimore took hold of the enterprise, and, after driving an adit and penetrating the rock containing the ore horizontally 94 feet without striking the ore bed, they became discouraged and abandoned the work. In 1853, however, some gentlemen of New York city purchased

the mine and 248 acres of land adjacent. In the fall of that year a charter was granted by the Legislature of Vermont, constituting them a body corporate under the name of the Vermont Copper Mining Company, with a capital of \$500,000. In the spring of 1856, the work was systematically commenced under the superintendence of Capt. Thomas Pollard, an intelligent and experienced Cornish miner, and, under his supervision, the work has been attended with gratifying results. The cross-cut adit, abandoned by Messrs. Binney & Tyson, was at once entered by the workmen and driven in the direction of the ore, and they had not proceeded four feet before the ore bed was reached. The bed was found to consist of copper pyrites, associated with mundic, and was from eight to sixteen feet in thickness. The ore occurs in a continuous bed, conformable with the schist inclosing it, and has an average thickness of about 12 feet, and in descending into the earth the bed is found to change in appearance and improve in quality.

The depth of the mine is now 2500 feet on an angle of about 25 deg. The mine has been worked 27 years, and has about 20 smelting stacks (against one at the beginning,) and 30 roasting sheds. The opening of the mine is about a third of a mile above the smelting stacks, in the side of the hill. At the opening is the ore-house, where the ore is "cobbled" or dressed down to about 8 per cent.; the "cobbling" is done mostly by boys; from the ore-house is a double track to the roasting sheds; on each track is a car; a car of ore is let down the inclined track to the roasting shed, and as the loaded car is let down it is so attached to the empty one on the other track that it is drawn up by the descending car, and this operation is continued ad libitum. At the "roasting shed" the sulphur is driven out and prepared for the smelting stacks, where, by smelting and re-smelting, the copper is separated from the other ores. A 100 horse-power steam engine runs the immense blowers which supply air for the furnace or stacks. The writer has specimens given him by Col. Long which assay 32 per cent., and come from 2500 feet under ground. Col. Long, Superintendent of the mine, says the ore grows richer as they descend. Prof. Hagar in his report on the geology of Vermont in 1860 speaks of this mine, and predicts its future richness.

This mine, according to statistics of 1879, is next to the largest producing copper mine in the United States, the Calumet & Hecla only exceeding it. It yielded last year 4,000,000 pounds, against 10,000 in 1854. At the Home, or Ely mine the company employ about 700 hands. This company has such faith in the mineral resources of the vicinity that two years ago they made purchases of partially developed mines, in one of which they are now working 300 men, hauling the ore by teams to their smelting works, 14 miles distant. There are other "showings in the vicinity equal and superior to the Ely in its beginning; therefore it is to be wondered at in this time of mining excitement that capitalists and others interested in mining do not turn their attention to the green hills of Vermont."

A New Thing in Mining.

A queer bonanza is the Rosebud mine, of the Black Hills, in regard to which the *Pioneer* of that section says; "The shaft is down 110 feet, and presents some queer phenomena. On one side of it for many feet porphyry has been thickly interspersed with promising ore, and on the other it is a solid mass of old jawbones, skeletons of men and animals of races long extinct. A bonanza of mingled gold and fossils is something new even in this wonderland. While the miners are extricating the royal metals on one side, Professor Jenny is preparing to run a tunnel on the other to develop the exhaustless treasure of jawbones, skulls, tibias, femurs, meglosopterouses, ichthyosauruses, mammoths, behemoths, rhinoceroses and other obsolete monsters that were saddle-ponies in the days when Susan B. Anthony and Olive Logan rode behind Alex. Stevens to school to Methuselah under the shadows of Ararat.

How It's Done in Maine.

Down in Maine when a Deacon finds strange looking float rock on his farm he notifies his county newspaper that there is a silver mine on his land, and the editor takes a piece of the rock to the village tavern and hunts up an old bum who has been in California and submits it to him for examination. The bum pronounces the rock to be silver ore, and in his next issue the editor says that Deacon Podghopkins has found silver on his land; and some of the stone supposed to contain the metal was shown to several old Californian miners who pronounced it to be the same character of stuff from which the silver was extracted in the silver mines of California, and that the Deacon will sell a few acres of his land cheap for cash. Human nature is pretty much the same all the world over, whether on Pine street, San Francisco, in the Board Building, New York, or among the granite hills of Maine—everybody is on the sell. If there were only as many buyers for mines and stocks as there are sellers, couldn't we get rich quick, and if there were only fools enough in number equal to the sharpers, wouldn't there be lots of money in circulation.—[*San Francisco Stock Report.*]

A Bad William.

We have received from a prominent mining superintendent of Blue Hill, who is well known out West, the following letter, which speaks for itself:

BLUE HILL, ME., April 13, 1880.

Bulletin Publishing Company—

GENTS:—Enclosed please find my subscription of two dollars to your paper, with best wishes for your success. I remain yours respectfully,

Now the sender and the letter are both good fellows, but the two dollar Bill enclosed is an old sinner, and a very hard case to handle. Judging from its dilapidated condition it shows evidence of a hard struggle to maintain an existence. We have known the same two dollar William from the time he was first printed; we have then followed him from place to place until he was impressed into the ranks of Dennis Kearney at the sand lots in San Francisco, where he has been employed in furnishing bail at different periods, for the great agitator, to keep him out of jail. How he got into the possession of Jim Sweeney, the irrepressible, who lost it shaking dice for chickens with Col. Riley, of the board of health, at the Parker House, we do not know. It was next seen in the possession of Dick Riland, who paid it to Jim Kellogg for Pedro. It was then paid us for a copy of the United States artillery tactics, by Captain Hubbard. It is the same identical two dollar William we paid to Sam Kee for a week's washing, who said that he lost it playing "tan" in Pioche. Oh! Charles, how did you get that two dollar William? We have had him framed, and he can stay with us until he recuperates and improves his dilapidated condition.—[*Sullivan Bulletin.*]

Telegraphic Manual.

We have received a copy of *Washburne's Cable and Telegraphic Manual*, which contains so much that is of value to all who have occasion to use the telegraph (and who in these days does not?) that we take pleasure in heartily recommending it. It gives among other things the rules and regulations of the International Telegraph convention, a full table of rates to all parts of the world and a code of the principal phrases used by travellers, tourists and business men. Published by Washburne & Palmer, 128 Broadway, New York. Price \$1.

An Important Meeting.

A meeting of officers of several Blue Hill copper mining companies was held in Bangor on Thursday evening of last week and the following resolutions unanimously adopted:

Resolved, That the attempt of speculators to depreciate the stocks of the Blue Hill Copper mines, solely for selfish pur-

poses, by claiming that stocks are for sale at prices at which they cannot be furnished, and raising groundless doubts as to the intrinsic value of the properties, is entirely unwarrantable. That any officer engaged in such business is worthy of contempt and ought to be removed at once from his position for violation of trust. Furthermore, we advise stockholders to remain firm and we invite the most searching scrutiny into the condition of the mines and their management.

A. C. Hamlin, Chas. Hamlin, directors of the Douglass; F. M. Laughton, Fred W. Hill, C. F. Bragg, H. C. Martin, directors of the Atlantic; John S. Jenness, Samuel R. Prentiss, directors of the Young Hecla; David Bugbee, John R. Mason, directors of the Twin Lead; J. S. Ricker, Thomas White, directors of the Stover Hill; Wm. P. Hubbard, M. Preble, directors of the Blue Hill Central.

CORRESPONDENCE.

Blue Hill.

BLUE HILL, April 25, 1880.

Editor Maine Mining Journal:

There is quite a difference between the Blue Hill of to-day and that of two years ago. Now there is hardly a man but what is interested in some way in the welfare of the mines and to say anything against them will bring upon one's self a war of words. Then very few men believed in them; now the town is booming with business; then it was more dead than alive. Facts are true and our mines are a success, so much so that there are now no croakers, or if there are they "hold their peace."

The management in and about the mines is now nearer what it ought to be than at first, showing to any careful observer that we are getting experienced men at the helm.

The "Favorite" mine is showing up well and those who have visited it have great faith in it and look to it as the "bonanza" of the day. Parties here are buying in all the stock they can at prices a little below the quotations and expect to do well as soon as Prof. Stewart's report is published. The Twin-Lead and Young Hecla are looking finely, the buildings of the former being as neat and tasty as any you can find. City of Boston under the able management of Supt. O'Connell is looking well. The work of sinking the shaft is done in good shape and with speed.

Supt. O'Connell has lately taken charge of the Jersey in addition to the above, and I think the company are to be congratulated on securing so able a man to manage their property. It shows they mean business and want a good man to manage their good showing. I visited the Trio and was surprised to find they had such a good showing for ore. It does not seem possible for such "good things to come out of MacVile."

Bondholders can still be seen upon our streets, talking to owners of farms and stating to them the advantages they can give them over any one else.

A certain person struck a very rich vein on a farm, bonded it, prospected and sent samples for assay to Bangor. The returns were, ciphers under each heading and charges \$3. Still they come. "NEMO."

Franklin Items.

Gold has been discovered upon E. J. Swan's back farm in Franklin. The plain white quartz vein appears to be a true fissure while a "trap dyke" traverses its side. Work will be begun at once. It is to be called the "Silver Brook" from a brook that runs near by. Recent assays show gold in large quantities and a good yield of silver.

The Swan mine is showing up splendidly. The ore is in abundance. The vein rock is a fine quartz and at a depth of ten feet further will extend clear across the shaft. Its depth is nearly forty feet and more crew will soon be added with machinery.

Frenchman's Bay Mine is as usual quietly sinking with a full force of men. It is most thirty feet deep and every foot shows a heavier body of ore.

We have received the second number of the *Nevada Monthly*, a magazine devoted to the mining interests of the State of Nevada, and published at Virginia City. It contains a large amount of interesting matter, and is exceedingly valuable as a book of reference, as it gives the monthly out-put of the different mines, items of expenditures, etc., together with a transcript of stock quotations, and much other information which is not easily obtained from any other source.

LODES, LEADS AND VEINS.

QUEEN CITY.—The shaft is down twenty-five feet, and the vein at that depth is a foot wide, presenting a favorable showing.

CONSOLIDATED HAMPDEN.—An air compressor will soon be obtained.

GOULD.—The Gould Silver Mining Company was organized at the Mining Exchange in this city on Tuesday last, with a capital of \$500,000, divided into 100,000 shares of \$5 each and the following officers: President, James F. Moses, Bucksport; Vice President, John W. Gould, Blue Hill; Secretary and Treasurer, W. Franklin Seavey, Bangor; Directors, James F. Moses, John W. Gould, Gordon Stanford, W. B. Gould, A. R. Gould, Rodney Pomeroy, Wm. H. Darling, Wm. D. Swazey and W. B. Pinkham. The property of the company is located in St. Albans, Somerset County. The work of development will be pushed vigorously.

CORINNA.—Geo. R. Lancaster, Esq., President of the company, visited the mine on Friday last. The shaft is down 85 feet and the rock through which the shaft is now passing is soft and somewhat plumbaginous. If the vein is not struck at a depth of 100 feet drifting will commence.

CLARK.—The stockholders of the Clark Silver Mining Company held their annual meeting Tuesday the 15th. The old Board of officers was elected excepting Alexander Fulton, Treasurer, who resigned on account of being from home a great portion of his time on professional business, and James A. McGown was elected in his place. The stockholders contributed fifteen thousand shares more stock to the treasury. The company is now in a very prosperous condition. They have just completed a new shaft house and the shaft is now down twenty-two feet, thoroughly timbered. They are now taking from the bottom of the shaft some very nice ore, showing copper and silver, and a recent assay showing quite a quantity of gold. A new shaft is being started some 200 feet from the other shaft. Work will be pushed in each vigorously.

J. T. CRIPPEN, Secretary.

EGYPT.—The shaft is down 15 feet and rich copper sulphurets have been struck.

FRANKLIN EXTENSION.—A letter from Franklin dated the 25th, says: "Superintendent Hamilton has struck the vein on the Franklin Extension. He had only two feet of drift to clear away. Ellsworth and Franklin people are much excited over the richness of the showing."

BRITTON.—The Britton Silver Mining Company of Cherryfield was organized under the general laws of the State, April 8th, 1880. The property is a part of the Major Dinsmore farm on the lower road from Cherryfield to Harrington. The width of the quartz vein has not been determined. A shaft was sunk last fall to the depth of 20 feet in the vein, and along the south wall showed to be highly mineralized, and afforded galena of a superior quality. Some of the stock will be put upon the market this month, and work in the shaft will be continued at an early day. The officers of the company are as follows: President, Alexander Campbell; Secretary and Treasurer, David W. Campbell; Directors, Alexander Campbell, G. R. Campbell, David W. Campbell, C. C. Campbell, C. P. Nickels, N. B. Dyer, E. L. Young.—[*Machias Republican*].

MACHIAS.—The Machias Silver Mining Company was organized at Machias Saturday, April 24th, with the following list of officers: President, Geo. W. Drisko; Treasurer, John F. Harmon; Secretary, John F. Lynch; Directors, Geo. W. Drisko, John F. Harmon, of Machias, and E. G. Des Isle, Chas. B. Pineo, Isaac B. Des Isle of Bar Harbor. The capital is \$500,000 divided into \$5 shares of which 40,000 are placed in the treasury. The property of the company consists of mineral land in the town of Marshfield, on what is known as the Crocker farm. The following additional facts are from the Machias

Union: This lode attracted attention for its showing of silver about thirty years ago. At that time Hon. J. A. Lowell and Capt. John Keller, of East Machias, both since deceased, made some effort to test the vein after having satisfactorily prospected the surface showing. They offered \$50 cash at the time for a bond of the ledge or hill, but Mr. Crocker, perhaps, thought he would develop the lode himself, but the matter settled and no further effort was made. Ten years ago a blast of powder revealed specimens of ore of exceeding richness. The company propose to thoroughly prospect the property, and it is probable that Mr. Isaac B. Des Isle who has had experience in mining work, will have charge of operations as superintendent.

GOULDSBORO.—Some very handsome ore from the Gouldsboro has been received at our office. The mine is making a better showing than ever before. A tunnel is to be run from the open cut to the shaft. A shaft house is about to be erected. Steam machinery will very soon be introduced.

WEST BAY.—The shaft is down more than 20 feet and work is progressing favorably.

SULLIVAN FALLS.—The shaft is now down 33 feet, and sinking progresses as rapidly as the nature of the ground will admit, working day and night shifts. The bottom of the shaft is showing some fine looking argentiferous galena, and is looking exceedingly well.—[*Bulletin*].

BEACON HILL.—The Beacon Hill shaft is down about 45 feet, and at this depth it shows a well defined vein carrying galena, copper and sulphurets of iron. Assays of the ore recently made yielded all the way from 21 to 57 ounces of silver per ton of 2000 pounds. Lumber is now on the ground for the immediate erection of a substantial shaft house and other necessary improvements, and it is the intention of the owner to push the work of sinking the shaft with all possible speed, until a depth of 100 feet shall be attained, when drifting on the vein will be commenced.—[*Bulletin*].

MILTON.—Everything is in readiness to receive and set up the air compressor and new boiler as soon as it will be landed. Work in both shafts is progressing as usual. Bottom of shaft No. 1 is in bands of fine-looking quartz, well diffused with mineral. Shaft No. 2 produces some fine-looking rock, heavily charged with sulphides of copper and sulphurets of iron, and is looking very promising. Are approaching the outside vein rapidly, and the prospects for opening up a first class mine have never been so encouraging since work was first commenced.—[*Bulletin*].

SULLIVAN.—The work on this property continues energetically. A new boiler recently received is now being placed in position, which, when completed, will afford abundance of power to run all the necessary machinery for mine and mill. Mr. John Galt, a competent mining engineer, who has quite recently arrived in this country from Glasgow, Scotland, is now engaged with quite a number of men laying out and excavating for the foundation of the mill, which is soon to be erected. The Johnson drill continues to give good satisfaction, and does the work in shaft No. 2 quite lively. Very favorable ground has been encountered both east and west of the old shaft on the 130 foot level, which requires hardly any blasting.—[*Bulletin*].

GRANT.—The shaft is down 86 feet. It has been voted to put in steam machinery at once.

HIGHLAND.—The Highland Copper Mining Company was recently organized in East Blue Hill with a capital of \$500,000 divided into 100,000 shares of \$5 each, and with a treasury fund of 30,000 shares. The officers are President, Findley J. Watt, East Blue Hill; Secretary, Frank H. Binder, East Blue Hill; Treasurer, James Watt, Philadelphia; Directors, James Watt, Christopher Binder, Joseph H. Johnson, Findley J. Watt, Frank H. Binder, James W. Snow, and J. Wesley Leach. The mine is located in the town of Penobscot, Hancock County, and has been examined and approved by Prof. Dickerson.

STOVER HILL.—Robert O'Rourke has assumed the duties of superintendent in place of H. M. Bartlett resigned.

JERSEY.—Timothy O'Connell who has charge of the City of Boston was elected superintendent and has taken charge. The shaft is timbered up for about ten feet below the surface with hewn logs, and is left large enough to admit of regular timbers inside of it. The vein still improves. Work will now be shoved along as fast as possible, and good things are expected.

BANGOR AND BLUE HILL FALLS.—Work has been discontinued in the shaft. The north vein on the property is to be thoroughly prospected.

REVERE.—The cargo of lumber has arrived and the work of timbering the shaft and erection of the boarding house will be pushed.

ATLANTIC SILVER.—The Atlantic Silver Mining Company, of Ellsworth, was organized the 11th of March last, and the following named officers were chosen: President, James W. Davis; Treasurer, L. B. Wyman; Secretary, W. W. A. Heath; Directors, James W. Davis, L. B. Wyman, Patrick Mullan, W. E. Richardson and W. W. A. Heath. The location of this mine is on Little Duck Island, near Bass Harbor Head. The company own all the mineral right in this Island which contains about 100 acres. There are several well defined and fine looking veins upon the Island which are strongly mineralized and have been pronounced rich by experienced miners. One of the veins is thought to be about 30 feet wide.—[*Ellsworth American*.]

EAGLE BROOK.—A Portland correspondent writes: "The Eagle Brook Silver Mining Company organized in Portland Saturday with the following officers: President, S. H. Doten; Treasurer, A. N. Hawes; Secretary, I. A. Packard; Directors, S. H. Doten, C. W. Noble, A. B. Stephenson, C. M. Bain, C. A. Dyer, I. S. Bean, of Portland, Henry W. Sargent of Sedgwick. The property is located in Sedgwick on a vein running parallel with the Edgemoggin and about two miles from it. Prof. Bartlett will examine the property this week and report upon it."

DEER ISLE, JR.—The work of sinking the shaft is being continued. The vein has not yet been encountered.

PORTLAND DEER ISLE.—The Portland Deer Isle Silver Mining Company was organized at Portland April 26th, with the following list of officers: President, Chas. P. Mattocks; Treasurer, Wm. E. Gould; Secretary, H. N. Pinkham; Directors, C. P. Mattocks, W. E. Gould, L. D. M. Sweat, T. Frank Jones, B. Barnes, Jr., W. H. Sanborn, Gardner M. Parker.

ISLAND CITY.—M. H. Kiff, Trustee of the Island City Silver Mining Company, writes: "The shaft is down 12 feet and showing an assay of \$48.50. A blacksmith's shop has been built and all the necessary preparations have been made to rapidly push the work of development. Prof. Bartlett, B. F. Andrews, the President, and B. Barnes, Jr. and Fred J. Merrill, Directors, visited the mine on Friday of last week. We feel very much encouraged in regard to the future prospects of this property as it resembles the Deer Isle ore more than any other in the State. The galena taken from this mine is exceedingly fine and rich."

ACTON CONSOLIDATED.—The consolidation of the Acton, Portland Acton, Boston Acton and Forest City Mining Companies has been perfected and the Acton Consolidated Mining and Milling Company is the result. The capitalization of the four aggregates \$2,000,000 but by the new arrangement it is reduced to \$1,200,000, divided into 240,000 shares of a par value of \$5, of which each company receives 36,000, thus leaving 96,000, of the value of \$480,000 in the treasury of the company. The Acton receives in addition to its proportion of 36,000 shares 6000 more on account of its developments, and another 8000 as a bonus. The Portland Acton gets an additional 1600 shares for its development, the Boston Acton the same, and the Forest City, because of the recent introduction of a large amount

of new machinery, gets 3000. By this arrangement the Acton receives one share of the new company for nine of the old, the Portland Acton one for every thirteen, the Boston Acton one for every three, and the Forest City one for every twelve. The consolidation now holds 2000 feet in each of the two veins, and the development of these is under the superintendency of Mr. Dickson, a well known Nevada mining engineer and superintendent. The requisite machinery of the most modern make is being rapidly set up, and operations are to be pushed from this time on with all possible vigor, and with certainly a most encouraging outlook. The vein at the foot of the shaft and incline, 100 feet down, is seven feet wide and thoroughly mineralized, carrying one or two rich pay streaks seven inches wide, and the best of the quartz abounding with rich galena.—[*Boston Advertiser*.]

Nuggets.

Bangor is to have a Telephone Exchange.

A Mining Exchange has been opened in Machias.

A lively boom is expected soon at Blue Hill Neck.

An assay office will soon be opened on Main Street, Bangor, by N. Parke Doe.

Skowhegan parties have discovered what they think will prove a very valuable antimony mine.

In a recent article the Boston Herald alludes to the indifference with which the press of Maine generally has treated mining.

Andrew Sukeforth, the blacksmith who was injured at the Bisbee mine at Blue Hill some months since by an explosion, died on Sunday last from the effects of his injuries.

A fine showing of ore has been found on the Davis farm near Hermon Pond and it is claimed that it is on an extension of the Hampden lode. Workmen have commenced under the charge of Mr. Clark to develop the property.

The MINING JOURNAL, published at Bangor, edited by E. M. and W. F. Blanding, devoted to Maine's mining interests, is well managed, ably conducted and must be a great aid in developing the mines, lodes and ores of the State.—[*Machias Union*.]

A special dispatch to the Boston *Globe* states that gold has been discovered in the town of Clinton, Mass., on the premises of D. W. Carville. A sample sent to Boston for assay was found to contain the precious metal to the amount of \$22.33 per ton.

Happy Thought is the name given by J. W. Milliken, Esq., of Bangor, to his property west of the Bay View. A crew are at work prospecting to determine the exact position of the vein preparatory to sinking a shaft. The work is under charge of Supt. Pearson of the Bay View.

A vein of silver it is reported has been discovered on the Naraguagus, about twelve miles above Cherryfield on Bartlett Leighton's land in Deblois. The vein runs easterly, is very distinctly traced, and crosses Pleasant river at Saco Falls, thence on toward Whitneyville.—[*Machias Union*.]

The Penobscot Silver Mining Company are opening on land of Otis Grindle, and think they have something pretty nice. In the west part of the town, Philadelphia parties are prospecting on land owned by Wesley Leach, and will soon open in several other places. The showing on the Leach place is said to be excellent.—[*Ellsworth American*.]

The company who have control of Eagle Island below Addison, have erected a dwelling house, blacksmith shop, etc., and contracted with responsible parties to sink a shaft a certain depth at a cost of \$1,000. Captain Hopkins and N. Dyer, of Millbridge; H. W. Nash and Benj. White, Addison, and others are in the company.—[*Machias Union*.]

Mr. R. A. Varden, a well-known English Assayer, who is well

versed in the practical duties of treating low grade ores, has just made a thorough inspection of the Acton lode, and has accepted the management of the Bullion smelting works about to be erected at Acton, and is busy with his plans and specifications for the smelting department, the concentrating machinery having been previously contracted for and is now being built in Philadelphia.—[*Boston Advertiser*.]

At New Year's, Messrs. E. M. and W. F. Blanding started, at Bangor, the MAINE MINING JOURNAL, a paper which has been twice enlarged since that time, and now consists of 20 pages beside those devoted to advertising. It has endeavored, so far as can be judged, to tell the truth about the numerous schemes which are brought forward, and it seems to be the purpose of the paper to deal honestly by its readers. What more can be asked of a mining journal?—[*Boston Herald*.]

The MAINE MINING JOURNAL, although younger than most of its contemporaries, is not behind them in enterprise and a knowledge of what constitutes a live journal. It has recently enlarged its proportions, and under the management of its present able editors bids fair to rival many of those journals which have been longer in the field. In its news department it shows commendable activity, and its typographical appearance is extremely attractive. Maine is to be congratulated in having so able a journal exclusively devoted to its interests.—[*Boston Economist*.]

The steamers of the Bangor and Bar Harbor Steamship Line will make regular trips to Blue Hill and Mt. Desert. The favorite steamer May Field leaves Bangor Tuesdays and Thursdays at 8 A. M., touching at the river landings and Sandy Point, Fort Point, Castine, Deer Isle, Sedgwick and arrives at Blue Hill in the afternoon. Returning, leaves Blue Hill Wednesdays and Fridays at 7.30 A. M., touching at the above landings. The popular steamer City of Bangor will leave Bangor Saturday mornings at 8 o'clock for Bar Harbor touching at river landings and Castine, Islesboro, Deer Isle, Sedgwick and South West Harbor and leave on return on Monday morning. The steamers of this line are deservedly popular and the officers are exceedingly obliging and courteous.

A visit has been recently made to Cape Small Point, Me., which is not far from Brunswick, by students from Bowdoin College and the Boston Institute of Technology. For sixty years this beach has been daily more or less covered with a bituminous coal, and efforts to sell the surrounding property for a coal field have not been wanting. Hence, as no public announcement has been made of the reasons why the prospective investors have always backed out, these amateur geologists have been investigating. They have the opinion that the formation is granite, and that the coal is washed in shore from a very long distance, from a vein which is the continuation of the celebrated Nova Scotia coal mines. Three weeks since one of the best experts in the geology of coal was brought from a distance by Portland capitalists and taken down to Cape Small Point to examine the field. His report is not made public. The fact that these gentlemen have abandoned the coal finds in Maine is no secret.—[*Boston Advertiser*.]

The discovery of clear white mica at Gilead, Maine, and the success with which it is being quarried, add another interest to the mineral wealth of that State. For sixty-five years the major part of the mica used has been secured in one mine in New Hampshire and one other in North Carolina, so that prices have ranged from 80c. a pound for the smallest stove sizes upwards. The new mica quarry now brought to light is on Peaked Hill, on the Androscoggin river, three miles north of the West Bethel station on the Grand Trunk road. The property has been visited by some of the best geologists in the country, who have been employed by a number of the leading business men of Portland, and the vein is reported to be from five to eight feet thick for three hundred feet, with surface indications that it continues equally rich about 1-3 of a mile fur-

ther. The mica is a clear dead white, free from flecks and cracks, and is taken out in sheets as thin as writing paper up to fifteen and twenty inches square. The property has been worked for two months, and the best of merchantable mica in sizes 3x1 1-2 feet secured. A company to be known as the Maine Mica Mining Company is being organized by Portland people.—[*Boston Advertiser*.]

New Companies.

Name of Company.	Location.	Date.	Capital.
American Union Silver Mining Co.,	Hancock,	April 22,	\$500,000
Dirigo Copper Mining Co.,	Blue Hill,	April 22,	500,000
Excelsior Copper Mining Co.,	Belfast,	April 24,	500,000
Jersey Copper Mining Co.,	Blue Hill,	April 26,	500,000
Egypt Silver Mining Co.,	Ellsworth,	April 26,	400,000
*Star Consolidated Coal Mining Co.,	Portland,	April 26,	250,000
Eagle Brook Silver Mining Co.,	Portland,	April 27,	500,000

*Boulder Co., Colorado.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 28, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Aztec.....	13	13 1/2	13	13 1/2	13	13 1/2	13	13 1/2	13	13 1/2	13	13 1/2
Atlantic L. S.....	19	19	19	19	19	19 1/2	19	19 1/2	19	19 1/2	19	19 1/2
Allouez.....	15	15	15	15	15	15 1/2	15	15 1/2	15	15 1/2	15	15 1/2
B. Anthony.....	33	33 1/2	30 1/2	32	34	36 1/2	33	37	40	37 1/2	...	...
Blue Hill Copper.....	9	9 1/2	...	...	...	...	9	...	...	8	8 1/2	...
Calumet & Hecla.....	236 1/2	237	...	237	...	237	...	237	...	237	...	238
Central.....	...	...	...	...	...	...	...	...	...	...	...	...
Copper Falls.....	11 1/2	13	11 1/2	...	13	...	13	1 1/2	...	11 1/2	...	...
Douglass.....	4 1/2	4 1/2	...	4 1/2	...	...	3	...	3	...	...	2
Duncan Silver.....	...	3	2 1/2	...	...	...	...	...	...	...	...	...
Franklin.....	17 1/2	18	18 1/2	18 1/2	18 1/2	18 1/2	18	18 1/2	16	17 1/2	15 1/2	16
Harshaw.....	...	...	...	...	...	...	...	...	...	...	...	...
Huron.....	7	8	7	7 1/2	...	...	7	8	7	7 1/2	6	7
Mesnard.....	1 1/2	1 1/2	...	...	...	...	2	1 1/2	...	2	1 1/2	2
National.....	3	3 1/2	3	3 1/2	3	3 1/2	...	3	...	3	...	3
Osceola.....	42	...	...	...	39	...	40	...	39 1/2	...	39	...
Pewabic (new stock).....	2 1/2	2 1/2	...	2 1/2	2 1/2	2 1/2	2 1/2	...	2 1/2	20	21 1/2	...
Phoenix.....	...	...	...	...	...	...	...	...	...	...	...	...
Quincy.....	31	31	...	30 1/2	31	30 1/2	31	30	30 1/2	23 1/2	20	...
Ridge.....	6 1/2	6 1/2	6 1/2	6 1/2	6	6 1/2	...	5 1/2	...	5 1/2	...	...
Silver Islet.....	...	...	...	...	17	...	...	16	...	...	...	...
Star.....	2	2	...	2	...	...	2	...	2	...	2	...
Sullivan.....	...	...	11	...	...	9 1/2	10 1/2	...	11	...	...	...
Waukeag.....	...	...	...	...	...	4 1/2	...	...	...	4 1/2	...	...

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 28, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Acton.....	14	15	...	...	...	...	15	...	...	...	15	...
Ashley.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Annabosc.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Atlantic.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Boston Acton.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Bethel.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Blue Hill.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Con Hampden.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Cornwall.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Charleyfield.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Deer Isle.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Douglas.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Favorites.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Forest City.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Fort Knox.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Gouldsborough.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Grant.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Harrington.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Home.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Milton.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Norumbega.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Ore's Head.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Petit Menan.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Portland Acton.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Robert Emmett.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Stover Hill.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Sullivan.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Twin Lead.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Waukeag.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...
Young Hecla.....	...	1 1/2	...	...	...	...	1 1/2	...	...	...	1 1/2	...

ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Oct. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. Geo. Walker, Portland; Treasurer, A. A. Bennett, Portland; Secretary, John S. Morris, Portland; Directors, Hon. Geo. P. Wescott, Judge Nathan Cleaves, Hon. Franklin J. Rollins, Clarence Hale, Hon. Geo. Walker.
Office of Company, 22 Exchange Street, Portland, Me.
IVORY LIBBEY, Supt.

ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Loughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Wintertop, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7½ Lisbon St., Lewiston.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington; Treasurer and Secretary, E. C. Smart, Bangor; Directors, J. L. Hodsdon, Bangor, Geo. Brooks, Orrington, E. C. Smart, Bangor, H. P. Blood, Bangor, Geo. R. Smith, Hallowell.

BLUE HILL COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston; Treasurer, Thos. H. Lord; Secretary, John Merrill, Blue Hill; Directors, S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Maunering Emery.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden; Treasurer, and Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BOSTON ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, John S. Morris, Portland; Treasurer, Abram A. Bennett, Portland; Secretary, Sterling Dow, Portland; Directors—John S. Morris, Payson Tucker, Frank G. Stevens, Clarence Hale, Hanson Gregory, Jr., Ferguson Haines.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPDEN SILVER MINING CO.,
Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 8,000 Shares.
President, Hon. F. M. Loughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

COMSTOCK SILVER MINING CO.,
Bucksport, Me. Incorporated February, 1880.
Capital, \$500,000; Shares \$2 each.
Office, 40 Water St., Room 46, Boston, Mass.
President, Hon. Wm. Wirt Warren, Boston; Treasurer, Oscar E. Doolittle, Boston; Secretary, R. B. Henchman, Bucksport; Directors—Hon. William Wirt Warren, Boston; Hon. Samuel B. Noyes, Boston; George F. Ropes, Salem; Wm. Reed, Boston; Samuel J. Noble, Boston; Dr. S. E. Thayer, Boston; George A. Morse, Boston.
JOHN ROBERTS, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Caudage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Huckins, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING CO.,
Acton, Me. Incorporated, Jan. 1879.
Capital, \$500,000; Shares \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors, I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.
W. A. GOULD, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphail Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EDGEMOGGIN SILVER MINING COMPANY,
Sedgwick, Me. Incorporated June, 1877; reorganized Oct. 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. F. Currier, S. D. Leavitt, H. W. Sargent, Wm. K. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McCLINTOCK & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardiner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hinckley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAAC S. GRANT, Supt.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Wintertop.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FOREST CITY SILVER MINING CO.,
Acton, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Hon. James Bailey, Portland; Treasurer, John W. York, Portland; Secretary, Emery S. Kedlon, Portland; Assistant Secretary, H. W. Pinkham, Portland; Directors, Hon. James Bailey, John E. Palmer, Charles M. Rice, Clark H. Barker, James E. Sturgis, Benjamin Barnes, Jr.
GARDNER FLOYD, Supt.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000; Shares \$5 each; Treasury fund 40,000 shares; Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith. Office, No. 1 Pemberton Square, Room 4, Boston.

FORT KNOX SILVER MINING COMPANY,
Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.
A. R. FELLOWS, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Latham, Jeremiah Wooster.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

GARDNER MOUNTAIN COPPER MINING CO,
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-President, Ezra L. Sterns, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, E. M. Hersey, Bangor. Directors—John S. Jenness, James Littlefield, James Tobin, James A. Davis, Hon. H. C. Martin.
WM. H. DARLING, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.

LEBANON-ACTON SILVER MINING COMPY,
Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Sweet, James W. Davis.

LADY ELGIN COPPER MINING COMPANY.
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable.
J. SHOENBAK, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 Shares.
Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer, of Biddeford.
JERE G. SHAW, Supt.

MINERAL HILL MINING COMPANY.
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 35,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. F. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

PORTLAND ACTON SILVER MINING CO.
Acton, Me. Incorporated, 1879.
Capital Stock, \$500,000; Shares, \$1 each; Treasury Fund Shares.
President, Weston F. Milliken; Treasurer, James L. Rackliff, Secretary, Chas. D. Clark; Directors, W. F. Milliken, Chas. McCarthy Jr., John A. Strout, F. J. Rollins and W. H. Moulton.
Office of Company, 22 Exchange St., Portland, Me.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. E. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.
Office, No. 48 Milk Street, Boston; Rooms F and G, 3d floor.
President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Dunclee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-sander Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp, July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 Shares.
President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 28,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROUKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.
SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.
E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. F. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Col. In McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WHITE STAR SILVER & COPPER MINING CO.
Blue Hill, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Hon. H. C. Martin, Brunswick; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, F. H. Clergue, Bangor; Directors—H. C. Martin, J. W. Milliken, James Adams, W. H. Darling, Parris G. Merrill, F. H. Clergue.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me.
Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, \$2,000 Shares.
President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

Annual Meeting.

The annual meeting of the Stockholders of the Penobscot Mining Co., for the election of Directors and for the transaction of such other business as may legally come before the meeting, will be held at the Falmouth Hotel in Portland, Me., on Wednesday, May 5, 1880, at two (2) o'clock P. M.

L. FOSTER MORSE, President.

A. H. SIMONTON,
Consulting Miner,
P. O. address, 304 Commercial St., Portland, Me.

Have had large experience as a practical miner, prospector and engineer. References, by permission—Prof. Edwin A. Curley, Deadwood, Dakota; Hon. James Bailey, Josiah Burleigh, W. H. Sanborn, N. M. Perkins & Co., Portland, Me.; Herrick & Byard, Sedgwick, Me.

H. A. TRIPP,
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Offices—EAST BLUE HILL, ME.

Organized, 1880. Mines at Penobscot, Me.
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Treasury Fund.....\$150,000
President—FINDLEY J. WATT, East Blue Hill.
Secretary—FRANK H. BINDER, East Blue Hill.
Treasurer—JAMES WATT, Philadelphia.
Directors—James Watt, Christopher Binder, Joseph H. Johnson, Findley J. Watt, Frank H. Binder, James W. Snow, J. Wesley Leach.
Mines were examined and approved by Prof. Montroville W. Dickeson.

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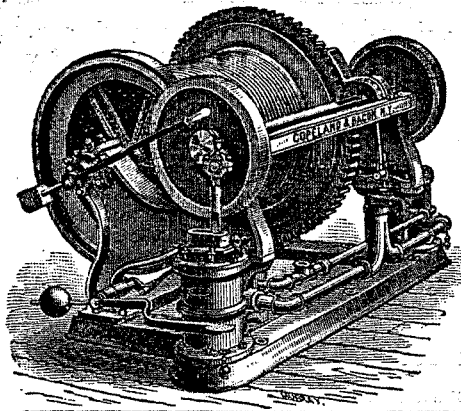
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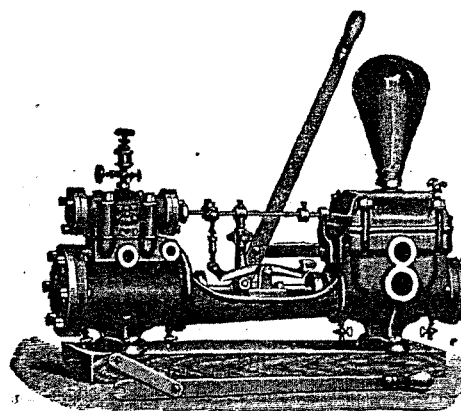
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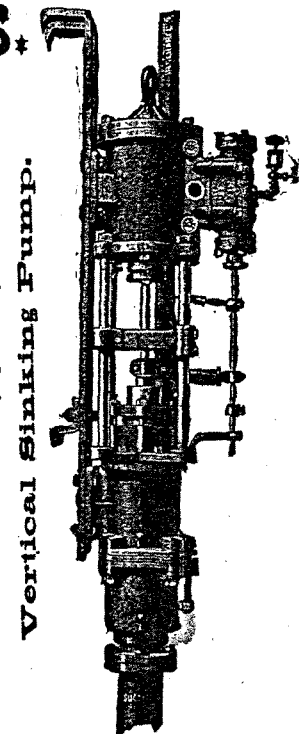
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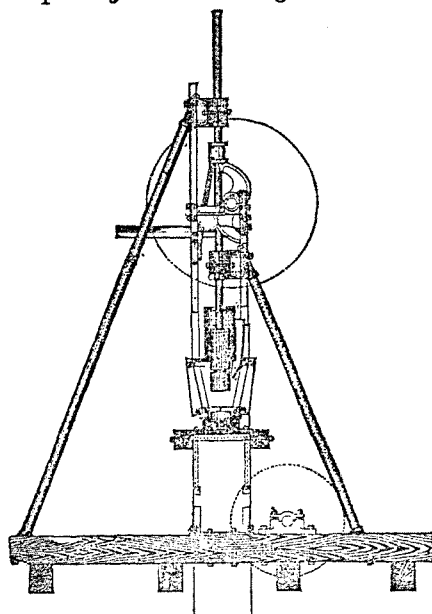
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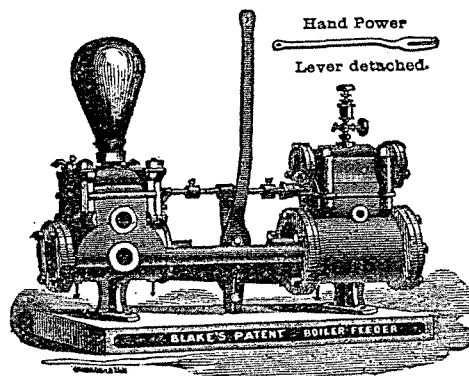
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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MAY 7, 1880.

THE OUTLOOK.

It has been only a few months since mining began to occupy the attention of the people of Maine, but the new industry has advanced with such giant strides that it now occupies a very prominent place, and on the street, in the railroad car, in the busy marts of trade and by the fireside it is one of the principal topics of conversation. The Maine mines have attracted a wide attention and throughout the New England States the interest in the mines is very general while scattered through the Middle States there are many interested parties.

The stock market has recently been experiencing a notable depression. Some of our people have exhibited alarm at the decline of mining stocks and expressed fears that the stocks would become entirely worthless and operations at the mines be suspended. This unpleasant feeling is the result of inexperience in the stock business and a lack of personal knowledge of the mines. Those at all familiar with such matters know that stocks have periodical freaks and at times fluctuate greatly at variance with the real value of what may be represented. The market becomes depressed and prices fall to a figure that may be much below the real value of the stock and subsequently the stock will take an upward tendency and often go to a figure much beyond the real value.

Stocks during the past few weeks have ruled very low. This has been the result of several natural causes which are readily visible to the careful observer. The depression has been very wide spread and has effected to a greater or less degree stocks of all kinds and in every portion of the country. In the general depression the stocks of the Maine mines have, to say the least, suffered no worse than the stocks of the mines of the West. Prices have ruled but little lower than they did during the days of last December after the break in the stock market which occurred in November. It will be remembered that the stocks of some of the most prominent of the Maine mines at that time declined to a

very low price but the fall was not so noticeable then as now as at that time there were not nearly as many organized mining companies in the State as at present and accordingly a much less amount of Maine mining stock afloat upon the market.

The mining business has made such progress that no one need fear of a receding wave. There is a fascination to the business which few other pursuits present and it sooner or later captivates even the most skeptical. Many who engaged in it at first as a speculation have become so interested and inspired with such confidence that they now are zealously engaged in it as a legitimate and honorable business. The recent stock depression has had a very salutary effect and a much healthier condition of affairs is the result. Capitalists in the future will be likely to be more cautious in their investments and while properties of questionable value will be lacking purchasers the really meritorious ones will rapidly grow in favor.

The outlook is a bright one. On every hand the evidences of increased activity is beheld. The mining regions are at the present time the scenes of more extensive operations than ever before. The doubting Thomases should repair to Blue Hill, Sullivan or some of the other well known mining districts and with their own eyes behold the stirring sights. Elaborate buildings are being reared, costly and improved machinery is constantly arriving and rapidly increasing crews of men are being employed delving in the rocks to open the hidden treasures. At Blue Hill, Sullivan, Gouldsboro and Acton, mills are about being erected at large expense for the reduction of the ores.

During the winter months the work in the mines progressed under many disadvantages but in the face of all obstacles a prodigious amount was accomplished. Work will now be pushed with greater vigor and many of the mines will soon be in condition to take out considerable quantities of ore. Mining is but in its infancy here.

The Depression.

[From the Mining Review.]

The different stock markets of the country show a decline in the prices of stock generally, and a depression on account of the tendency of buyers to take advantage of the break in the Little Pittsburg to bear the market. This crash also may have had the tendency to make buyers more cautious and more particular as to the amount of stock put upon the mines. It is also stated that in New York there is a dullness in the market for the sale of mines and prospects. There have been so many mining properties offered that the market is glutted. The same condition prevails to a considerable extent in Chicago. There have been too many non-productive properties sold at large prices. Now comes a reaction, and we believe it is a token of immense value, and proves the true worth and healthfulness of mining beyond a doubt. There was for a time too great a tendency to purchase everything that was called a mine, and pay most unreasonable prices, and the present depression shows that the growth of mining has cast off that threatened danger, and now stands on safer ground than ever before in its history.

Because there is a disposition to neglect non-productive

prospect holes at the prices asked for them, and no eager desire to grasp every stock offered without investigation, many are disposed to believe there is a depression in the mining interest. We are anxious to have this kind of a depression continue, for we believe it will be for the real benefit of this industry.

There is no depression in mining, and no reason for discouragement in the present outlook. Greater preparations than ever are being made for the development of the various mining territories. Larger numbers of people are preparing to go, or have already started, for the different mining points than any previous season can show, while there is an unusual activity in the sale of lots, erection of buildings, and general improvement in every mining town from which we have any report.

There is a depression in a few of those things which have been an injury to the best interest of mining, while everything that shows a healthy activity and real development gives evidence of more force and power. The *Mining Review* has most carefully watched the growth of the mining industry, and studied well the influences that must make and mold its future—that will establish it as an industry which has a certainty and permanency that capital can rely upon, or make it the play of the gambler and swindler—and we have seen it avoid one threatened danger after another, and escape with clean robes from the clutches of base and designing men.

So many are ready to cry that mining is dead, its life is ebbing out, and the end has come—just as they expected—whenever some vampire, which has endeavored to fasten its teeth upon the form of mining, falls crushed and mangled to the earth. Mining to-day stands like a young Amazon, with the warm, free current of life-blood pulsing and thrilling in every vein—health, vigor, and strength pictured in every movement—power and life mirrored in every glance—a strong, virgin queen, pure as the snow of her mountain peaks, who will crown her worthy subjects with tokens of rich rewards. A queen in her own right, so strong in integrity, power and wealth that nations yet will wait to do her honor. Generations will come and go, nations rise and fall, before mining will show any depression from exhaustion, and not until the end of time can it truthfully be said, "Mining is dead."

Personals.

PROF. C. H. HITCHCOCK, of Dartmouth, N. H., has returned from a trip to Oregon.

MR. JOHN BOYNTON, of Saco, has received a patent for a new process of extracting gold, etc., from ore.

E. C. NICHOLS, Esq., President of the Oshkosh Mining Company, is now visiting the mine in Colorado.

SUPT. BRYANT, of the Deer Isle, visited Portland this week. He passed through Bangor Thursday on his return.

MR. SIDNEY E. HORNE, Superintendent of the Millbrook mine at Sullivan, has been on a trip to Boston the past few days.

PROF. W. F. STEWART has been in Bangor the past week. He has about recovered from the effects of his recent accident at Blue Hill.

MR. A. A. MESSER has tendered his resignation as foreman at the Sullivan mine. MR. MESSER was the discoverer of the Sullivan vein.

MR. B. O. CUTTER, the retiring Superintendent of the Blue Hill mine, has been presented with an elegant gold headed cane by his former workmen.

H. D. GRISWOLD, Esq., of Providence, R. I., a dealer in electric batteries, fuses and powder, last week visited Sullivan and Blue Hill on a business trip.

HON. WILLIAM WIRT WARREN, President of the Comstock Silver Mining Company of Bucksport, died at his residence in Boston on Sunday evening last. MR. WARREN was one of the leading lawyers of Boston.

FRANCIS WORCESTER, Esq., of Ellsworth, owns the mineral right of seventy thousand acres of mining land in Eastern Maine and controls thirty-five miles of mineral vein. MR. WORCESTER was the pioneer in silver mining in the State.

COL. CHARLES H. LEWIS who has made over a million during the past year out of Maine mines, electric light, polyform, etc., has shipped a dozen bottles of polyform to Prince Bismarck and if the latter is cured of neuralgia the Colonel will probably be knighted.—[*New York Daily Mining News*.]

GEOLOGICAL REPORT,

Upon the Property of the Stover Hill Copper Mining Company, of Blue Hill, By Prof. W. F. Stewart.

BLUE HILL, Me., April 12th, 1880.

STOVER HILL is one of a series of conical Buttes which encircle the northerly and westerly borders of Blue Hill Bay, in Hancock County, Maine. The Hill is simply a gigantic wrinkle in the vast Archæan bed of tough sedimentary strata, which constitute the principal surface rocks in this portion of the State. Like Blue Hill, Fisher Hill, and other conical mounds in its vicinity, Stover Hill doubtless owes its present elevation mainly to the compact, obdurate nature of its highly silicious strata. The entire mass of the Butte—especially at its summit—is wholly composed of indurated quartzose schists, so heavily charged with silica as to render them impervious to the eroding elements.

The STOVER HILL MINING WORKS occupy a central position on the western slope of the Butte, at an elevation of some hundreds of feet above tide-water, and distant about two miles from the village and harbor of Blue Hill. The natural surroundings of the property are simply charming. From the apex of the Hill we have a splendid view of the beautiful Bay and of the distant ocean, while the picturesque feature-lines of the rugged coast may be as clearly traced as upon a colossal map. The mine is approached by an excellent public highway, and its proximity to Blue Hill harbor renders its facilities for obtaining machinery and supplies—expeditiously and inexpensively—as good as can be found at any mining location in the world.

The trend of strata-laminations at Stover Hill, is nearly due east and west, by the compass, and like most of the mineralized quartz veins in this region, the ore channels of the Stover Hill Mine lie perfectly conformable with the stratification of the enclosing schists. The Stover Hill system of veins lies nearly parallel to the great Douglass lode in Blue Hill Basin; but it is widely separated from the latter by a high ridge of rocks locally known as Fisher Hill, which has a basal diameter of one hundred rods at least. In fact, the Stover Hill system traverses an independent mineral zone, and has no connection whatever with the Douglass ore-channel.

That the two systems are wholly independent of each other, is clearly manifest not only from the dissimilarity of their geological and lithological characteristics, but also from the positive difference in the nature of their mineral products. The most thoroughly mineralized ore-channels of the Douglass belt, rest in a deep depression between opposing walls of granitic rocks and quartzite. The observable ore bodies of the Stover Hill occur on the face of a bald butte, at a considerable elevation above an adjacent deep depression. The Douglass ore-channels traverse a peculiar zone of schistose and quartzitic rocks which are strongly mineralized with the ores of copper to considerable distances from the lodes or central points of mineral concentration. The Stover Hill belt is not thus mineralized with ores of copper; but instead of this, the schistose mass is striated by innumerable bands and seams of Iron pyrites, with a few well defined veins and lodes of copper-bearing Mundic. The copper products of the Douglass system of lodes are palpably charged with a large percentage of refractory substances such as mispickel, zinc blende, and the sulphurets of Antimony and Nickel. Doubtless the Stover Hill ores contain these elements also; but, they are not palpable to the unaided eye, as at the Douglass, and hence the apparent difference of mineralization of the two systems.

I stated on a preceding page that the present elevation of Stover Hill is mainly attributable to the indistructible nature of its obdurate silicious capping. This is unquestionably true, for the tough strata at the apex of the butte have been so firmly pressed together that even the little bands of Iron pyrites which form rusty gossans on the sides of the hill, are here squeezed into insignificant threads, leaving the summit an almost homogeneous bed of silicious matter.

It is a well known fact that hard silicious rocks, which are nearly, or entirely barren of iron, or other oxidisable substances, are excessively refractory and therefore proof against erosive agencies. This very fact is of deep importance to the practical miner. Iron and other oxidisable metals enter largely into the vein-stuff of all mineralized ore channels. When attacked—as they frequently are—by percolating waters holding acids in solution, such metals rapidly rust out, leaving the enclosing rocks fragile and easily crushed and worn by eroding forces. For this reason deeply eroded depressions in a well mineralized mining zone, are suggestive of rich ore-bodies below the areas of greatest erosion; while on the other hand, the apices of flinty hills and ridges are imperishable monuments of metallic sterility.

The mineralized veins at Stover Hill all appear to rest near the centre of a synclinal basin, the axis of which is not far from the deep working shaft. In an open-cut eighty-five feet north of the shaft, the dip of strata is south fifty degrees. At the distance of nearly one thousand feet south from the mine, there is another open-cut in which the dip is north sixty-five degrees; while at the mine itself, the north wall of the shaft follows a perpendicular stratum to the depth of one hundred and five feet. It may be here noted however, that while the north wall of the shaft is formed of an unbroken stratum, yet the vein does not follow it, but at the depth of about forty feet it disappears from the shaft entirely and dips toward the south at an inclination of forty-five or fifty degrees.

As the synclinal and anticlinal foldings and inclination of strata afford very trustworthy indices to the probable depth of rock fissures and of mineralized veins, I shall take the liberty of copying the following from Professor C. H. Hitchcock's Report, Second Series, 1862. In describing a section of dips at the village of Ellsworth, Hancock County, the Professor remarks: "In the north part of the village on a hill the strata dip seventy degrees south fifteen degrees east, so that we have here a synclinal axis, whose line runs along the course of Main Street in Ellsworth village. It is because the strata have been pushed up almost upon their edges on the north side of this axis, that the hill in the north

part of the village exists, although further north it has been largely worn away by the waters of Union river. Essentially this dip prevails in the rock as far as its northwestern limit, near C. Jarvis' house, a trifle more than three miles from Main street, or just about half the distance from the Trenton Toll Gate. It is worthy of notice that there are just as many feet thickness of the strata on one side of this axis as on the other, since where the dip is half as great the distance is double.

We have calculated the thickness of the strata upon both sides of this axis, and will give the process. We shall be careful to have the result too small rather than too large. Taking the west side first we have before us the problem, given the dip of the strata for a known distance to find the thickness. It is done by the solution of a simple case in Trigonometry. Given the hypotheneuse and one of the angles of a right angled triangle to find the base, which is the thickness of the strata. Now the dip is seventy degrees. Deduct from this ten degrees for the possible original inclination of the layers from the first position, and five degrees more for possible errors, (for we find ourselves always inclined to state the dip too high,) and we have fifty-five degrees as the true angle for calculation, and three and a quarter miles for the hypotheneuse. The result is thirteen thousand feet, in round numbers, for the thickness of the north side of this axis. Now the average of the dips upon the south side, taking into account the very small dip at Oak point which must be supplied for a small part of the distance, and then deducting the fifteen degrees as before, must be twenty-five degrees as the true angle for calculation. Taking six and a half miles for the hypotheneuse, we find the base to be thirteen thousand six hundred feet in length in round numbers, or a little more than two and a half miles of vertical thickness of strata. The results agree within six hundred feet, which is a small error considering the roughness of the estimate."

It is generally conceded by geologists that fractures, or fissures traversing the laminae of tilted sedimentary strata, are vastly profound in depth, and that mineral veins always penetrate to the very bottom of such fissures. Von Cotta concludes that a true fissure vein will certainly be as deep as it is long at the surface. Now, if these distinguished scholars—Hitchcock and Von Cotta—are anywhere near correct in their estimates, then it is fair to infer that the ore veins at Stover Hill are not likely to fail for lack of vertical depth. Owing to the obscured condition of the rocks to the north and south of the Stover Hill shaft, it would be difficult to estimate the width of the strata on either side of the synclinal axis; but the principal quartz vein may be readily traced from east to west to the distance of several thousands of feet, and if Von Cotta's theory is worthy of credence, the Stover Hill ore channels are practically inexhaustible.

Since the discovery of the Stover Hill mine, there has been a large amount of surface prospecting work performed upon the property. As stated before, the entire Hill is striated by small quartz veins and deeply stained iron gossans, which uniformly expand gradually from the summit of the Butte toward its western base. Many of these iron gossans contain slight traces of sulphuret of copper, and this led to the work of prospecting referred to above.

The first important copper yielding vein in the system lies eighty-five feet north of the main working shaft, and has been fully exposed by a deep open excavation on the slope of the Hill. The dip at this point is south fifty degrees, and the trend is conformable to the schist lamination, being nearly due east and west. The ore channel appears to be about twelve feet in lateral diameter, and is filled by yellowish slaty strata traversed throughout by narrow veins and reticulated seams of mineralized quartz. The prevalent minerals observable in this vein are Iron pyrites, with occasional blotchings of yellow sulphuret of copper and a little purple and blue carbonates of that metal. In my judgment, this vein makes

the best surface showing of any one of the series, and its character of mineralization begets the hope that it may become valuable at greater depth from the surface. The owners of the property evidently agree with me in this opinion, for, at this juncture, they are vigorously driving a lateral cross-drift from the bottom of the main shaft, in order to tap this promising vein at the depth of one hundred and five feet from the surface. The drift has already penetrated to the distance of sixteen feet, and the problem of value in the north vein will shortly be solved.

Thirty-five feet north of the main shaft, there is another well defined parallel vein of quartz which gives some evidence of copper mineralization; but it is quite narrow and will be of little value unless it proves to be well charged with metal at greater depth from the surface.

We now approach the objective point of this delineation—the great ore-channel of Stover Hill. In many respects this is the most remarkable mineral deposit which I have yet visited in this country. In the first place, it is enormously expansive. A surface cross-cut at a point some rods west of the main shaft, reveals a mineralized channel about thirty feet in lateral diameter. In the second place, the shaft excavation shows this expansive channel to be simply an unfaulted, homogeneous zone of copper-tinted Muncie. This colossal mineral vein contains no obtruding substances such as barren quartz veins, fragments of strata and the like, but it appears to be mineralized at every point by the same elements and is as homogeneous throughout as a bronze statue. In the third place, the vein, most unaccountably, abandons a perfectly defined perpendicular north wall, and dips independently toward the south. Taking it all in all, the Stover Hill mine is a veritable geological and mineralogical puzzle. The pinched condition of the schists and veins at the summit of the Butte; the odd relationship between the lode and its walls; together with the anomalous character of its mineralization, all add to its perplexing singularity.

So far as I can ascertain, the mineral out-put of the Stover Hill has not yielded any notably rich samples of either copper, gold or silver. That these metals do exist in small quantities in the ores of this mine, has been proved beyond a peradventure, and for this reason there is an encouraging hope that the precious metals—silver especially—will continually augment in volume at greater depth from the surface. Experience in many mining regions has fully proved that when argentiferous ores exist even in small quantities—in a true vein, the precious metal nearly always increases in the lode at great depths, and there can be no valid reason why this may not be verified at the Stover Hill.

As for the probable increase of quantity and quality of copper products at greater vertical depths, that is quite another matter. I have been informed that the owners of the property under consideration are sustained by the belief that their ores of copper will increase in fertility at greater vertical excavation. I regret to state that I cannot share in this comforting belief. The experience of copper miners in the sulphuret ores of Copperopolis, California, and at Copper Canyon, Nevada, as well as at many other localities in both hemispheres, pretty clearly establishes the unwelcome fact that sulphuret of copper, like most of the base metals, is essentially a superficial deposit, and that the richest products of such deposits usually occur at or near the out-crop. The reason for this surface fertility in sulphuret copper mines may be readily explained. By exposure to the elements, the ores lose their iron by oxidation, and the copper is converted into rich oxides and carbonates.

By a retrospective glance at this history, it will be observed that I have very candidly intimated my objection to the *present position* to the Stover Hill working shaft. For fear that that intimation may be overlooked or forgotten, I will repeat it here:—"Deeply eroded depressions in a well mineralized mining zone, are suggestive of rich ore-bodies below the areas of greatest erosion; while on the other

hand, the apices of flinty hills and ridges are imperishable monuments of metallic sterility."

The simple truth is, that the Stover Hill Mining Works are situated at too great an elevation above the eroded valley, and are, therefore, too near the point of "Metallic sterility." It may be that paying quantities of rich sulphuret copper ore may be encountered by the drift when it reaches the north ore-channel of the system; but I doubt this. In my opinion, if rich deposits of such ore exist at any point in the Stover Hill Zone, they will ultimately be found in the eroded lowlands to the west of the present mining works.

The Stover Hill Mining Company owns about twenty-five acres of the land upon which the mining property is located, and as the veins trend in a diagonal course through the lot, there is ample room for extensive exploitations.

In concluding this report it is scarcely necessary to add that the Stover Hill ore-channels all traverse true fissures in the rocks. Their strike and dip are all that could be desired in perfectly formed mineral veins. The leading members of the group are strongly mineralized with iron pyrites, and most of them contain low grade ores. It is also known that they contain a small percentage of the noble metals; and with a knowledge of these encouraging symptoms of prospective prosperity, I can only express the hope that the mine may prove more valuable than its present geological and mineralogical surroundings seem to portend.

Very truly yours,

W. F. STEWART.

TO THE OFFICERS AND DIRECTORS OF THE STOVER HILL MINING COMPANY.

Gentlemen:—As the foregoing report does not convey an inspiring idea of the prospective value of your mine as a copper producer, the query at once arises:—Cannot the enormous masses of base elements which exist in the property, be turned to profitable account? It is gratifying to me beyond measure to be able to answer this interrogatory affirmatively. The base minerals of the STOVER HILL can be readily utilized and rendered enormously remunerative.

By referring to the report, it will be seen that the chief element of the great lode, is a massive stratum, or band of muncie not less than thirty feet in lateral diameter. It will also be observed that this prodigious mass of iron sulphurets, is slightly charged throughout with sulphuret of copper. The existence of these two minerals in such tremendous volume, enables me to assert, unhesitatingly, that the mine can be rendered a veritable Bonanza, by converting its out-put into commercial salts and acids. Possibly not another spot on the globe can furnish such excellent facilities for the economical production of sulphuric acid and the sulphates of iron and copper, as exist at Stover Hill. Situated, as it is, within cannon shot of one of the finest harbors in the world: containing, as it does, an inexhaustible store of raw material for reduction, and having the rarest natural facilities for inexpensive operations, it would be marvellous indeed if the mine could not be rendered enormously remunerative in the production of the salts and acids.

Of the commercial value of the substances locked up in the immense muncie vein at Stover Hill, I need scarcely make mention. Sulphuric acid is more extensively used in the arts than any other known acid, and always bears a compensating value in the market. Copperas is indispensable to dyers, tanners, ink manufacturers, and innumerable other industries. Blue Stone (sulphate of copper) is of equal importance in the amalgamation of silver; in calico printing; in washing seed wheat, to prevent the appearance of the destructive fungus known as "rust," and for many other purposes. Sulphur, another element of the muncie, is always of commercial importance. I cannot more clearly convey an idea of the value of the substances just enumerated than by quoting the following paragraph from Professor Bartlett's recently published work entitled "The Mines of Maine":

"I come now to a subject which has been too long neglected in our State; that is, the manufacture of sulphur and sulphuric acid from the iron pyrites, of which we have almost inexhaustible beds. This is an industry that has long been established in France, Germany and England, all of their sulphuric acid being now produced from the combustion of iron pyrites. We are, at this very moment, importing sulphur and saltpetre to make our sulphuric acid, when we have a ready and convenient supply of the necessary materials almost at our very door. Maine, with her immense beds of these pyrites, might produce sulphuric

acid to supply the demands of the whole United States. Most of these pyrites are cupriferous, and the manufacture of salts of copper and copper metal might be profitably carried on in connection with that of sulphuric acid."

All is not always lost which is in danger. Although, according to my best judgment, the STOVER HILL does not give promise of being an excessively fertile copper mine, yet, it doubtlessly can be turned to splendid account in the manufacture of the valuable materials above referred to. The advantages of the property for acid works is doubly enhanced from the fact that the great lode of mundic has been fully prospected, and the machinery for its extraction from the mine are already in complete working order. All that is now required to place the property upon an immediate paying basis, is the erection of suitable appliances for the manufacture of the salts and acids.

Yours very respectfully,
W. F. STEWART.

Silver.

BY PROF. CHAS. E. AVERY OF BOSTON.

Editor Maine Mining Journal:

The question is often asked why silver mines usually grow richer as they go deeper. Facts are worth more than theories and an account of some assays lately made may throw some light on the lack of silver at the top of veins, especially veins of sulphuret ores.

Two assays were made that gave only three or four ounces of silver to the ton. The owner of the mine for whom they were made expressed no surprise, saying he expected it, for they came from the first excavations in a Colorado shaft abandoned some sixteen years ago. The water had partly filled the shaft and old miners in the vicinity said the silver disappeared if the mine was left exposed. He then sent for samples obtained after further excavation and both of these gave much higher returns.

It seems likely that under the influence of air and water the silver sulphide had oxidized to silver sulphate, dissolved and drained away. After the tremendous planing down the surface of Maine has undergone from glacial action many of the silver bearing veins must have been worn down to a great depth. We might then expect the richer portions of the veins to be exposed, for if the increase first found was carried to the greatest depths the mines must be rich indeed. If we allow instead that air and water acting for thousands of years have removed the silver, we can easily see why the first two hundred feet may be poor in silver. That the mines do grow richer in silver as they descend seems to be borne out by assays personally made. Old patrons bring in samples assaying better and better. When prospectors first came with samples of Maine ores, not one in four was of value unless as an indication, now three in five are workable ores.

Some of this change is due to experience. In one case the gangue rock was brought and repeated assays gave little yield. The visit of a mining engineer soon put a stop to that and the ore gave good results. After making all allowance for this increase of knowledge, I think it proves true in Maine that silver increases with depth. In many veins poor at the top and not worth sinking a shaft on the indications, the diamond drill may establish their value at a less cost.

Perhaps some ingenious mechanic can modify the sand blast so it will enable drilling, sinking and tunnelling to be done cheaper yet. The tests of Sellers showed that quartz sand driven by one and a half horse power could cut one and a half cubic inches of granite per minute or three inches of marble. Three horse power would then, other things being equal, drive a two inch drill hole one hundred and twenty feet in twenty-four hours, and that through granite.

The difficulties in the way of cheap and rapid sinking by the sand blast may be insurmountable, but success would turn mining from a risk to a certainty.

The slate interests are looking up and the vast slate deposits in Piscataquis county promise to attract great attention in the future.

LODES, LEADS AND VEINS.

LAWRENCE.—At a recent meeting of the stockholders it was voted to change the par value of the stock from \$1 to \$5 and reduce the number of shares from 500,000 to 100,000. Under the supervision of Mr. Geo. D. Holt, the skillful superintendent, good work is being done.

CONSOLIDATED HAMPDEN.—The shaft is now about 130 ft. in depth. It is proposed to sink to a depth of 200 ft. before drifting.

NOROMBEGA.—The shaft is down 40 feet and good progress is being made.

HARRINGTON.—Work has this week been resumed. The sinking of the shaft is progressing.

GOULD.—Operations commenced this week and the sinking of a shaft will be pushed.

SNOW.—The shaft is down 45 feet and work is progressing vigorously. At the present depth the vein embraces about four and one-half feet of white quartz and quartzite and the balance black quartz. The hanging wall has been left and the shaft is following down on the foot wall. It looks as if the permanent foot wall had been found. A recent assay of the ore gave \$8.24 in gold and 50 ounces of silver. Mr. John Roberts is superintending operations.

COMSTOCK.—The shaft is down about 12 feet. Mr. John Roberts is superintending the work. The shaft is being sunk 25 feet from the vein and it is expected to cut the vein at a depth of about 75 feet.

EASTERN.—Work has been suspended, the company is to be disorganized and the stockholders will be paid back the money which they have invested.

PENOBSCOT.—We acknowledge the receipt from Rev. Samuel Annear of a large box of specimens from the Penobscot mine. The quartz crystals are very beautiful. The shaft is now 36 ft. in depth.

EASTERN BELLE.—Work has been temporarily suspended.

Blue Hill.

Blue Hill is now the center of great activity; new buildings are being erected among the mines and work is being carried on more extensively in the mines than ever in the past and the future is very promising. A large number of vessels have arrived with cargoes of lumber.

DOUGLASS.—A portion of the machinery for the Douglass mill arrived at Blue Hill on Friday last and the remainder was shipped on May 1st, and will probably arrive about the 5th or 6th.

CITY OF BOSTON.—The shaft has now reached a depth of 43 feet. Another shaft is also being sunk about 700 feet further to the south.

DARLING.—The stockholders of the Darling Silver Mining Company hold a meeting at the Maine Mining Exchange in this city on Monday next, at 4 P. M.

TWIN-LEAD.—The shaft is now down 92 feet and it is expected that the first station will be cut and drifting commenced in a few days.

YOUNG HECLA.—Supt. Duff under the date of May 3rd reports as follows: "Our shaft has now attained a depth of fifty-five feet and is now in very hard rock. We still have a streak of silver ore in the bottom and this has increased from about one inch in width at the top to four inches at present depth and in my opinion carries more silver than at any former time. Everything in and about the mine goes on smoothly and well and with no unforeseen accident or delay we shall very soon reach our first station."

STOVER HILL.—We publish in this issue the report of Prof. W. F. Stewart on the property. The work of running the cross-cut is being pushed and the crosscut is now in 30 feet, on the 100 ft. level.

BLUE HILL CENTRAL.—The ledge was struck at a depth of about 30 feet. The shaft is now being timbered.

SILVER REEF.—The shaft is down about 20 feet, and thoroughly cribbed.

REVERE.—The boarding house is now in process of erection. The work is being pushed vigorously.

DIRIGO COPPER.—Some blasts have been put in along the shore and some handsome galena ore has been found.

PORTLAND BLUE HILL.—The property is located on Blue Hill Neck and adjoins the Dirigo. A shaft is now being sunk.

ELLSWORTH.—We have recently commented sharply in regard to this so called mine and warned the public of the misrepresentations which have been given publicity in Boston over the signatures of officers of the Company. One of the editors of the MINING JOURNAL has visited the property during the past week. The prospect hole is situated about three-quarters of a mile from the city of Ellsworth a short distance off from the Lamoine road on a portion of the farm of John Sargent. Nothing that could bear resemblance to a vein was observed. The shaft which has been called from 22 ft. to 25 ft. in depth was measured by the MINING JOURNAL representative and found to be less than 15 ft. in depth. Some of the rock showed that it was mineralized with iron pyrites but a careful examination failed to show anything like silver bearing ore. As we were not allowed to take any of the valuable (?) rock away from the premises we have not been able to make any tests. Two other prospect holes are being sunk on the property and another one is soon to be commenced.

GRANT.—Operations are suspended in the shaft for the purpose of putting in steam machinery. Work on the buildings has commenced and the machinery has been purchased and already shipped from Boston. The shaft is down 86 feet and looking well. The rock is all quartz showing more or less mineral although the bottom of the shaft is not within six or eight feet of the first vein. The machinery is expected to be in running order early next week.

WESTERN UNION.—The shaft is being sunk vertically and will strike the vein at considerable depth. The shaft is now down 24 feet.

AMERICAN UNION.—It is the intention to commence work on the property soon.

ROBERT EMMETT.—The shaft is down 51 feet and good progress is being made.

EGYPT.—The shaft is down 18 feet and the showing is very good.

Sullivan.

The fame of Sullivan as a mining region has extended far and wide. The principal mines are at West Sullivan, distant about two miles from Sullivan village and are very picturesquely located along the eastern shore of Sullivan River. Access to West Sullivan from the Hancock shore of the River is gained by a large ferryboat which the veteran ferryman, Mr. Abbott, has for nearly a quarter of a century run. A half mile below, the River narrows and the famous Sullivan Falls are beheld while above the mines the River widens into an expansive sheet of water known as Taunton Bay. The River opposite West Sullivan is about one fourth of a mile in width and excepting at high tide the water rushes to or from the sea with great swiftness. The Falls are the centre of considerable attraction. West Sullivan has been given a new impetus by the mining industry and is making rapid progress. In addition to the very elaborate buildings of the several mining companies many boarding houses, stores and cottages have been built and numerous others are in process of erection. West Sullivan can also boast of a very creditable publication known as the *Sullivan Bulletin* which is devoted to the local and mining interests of the Sullivan district. The *Bulletin* is issued weekly and al-

though only a short time in the field has taken prominent rank among the newspapers of the State. The *Bulletin* will soon be enlarged and a new office is in process of building. Mr. John Shoenbar, the genial and capable superintendent of the Milton, is the editor. About a mile from the mines is the Waukeag House, a large and splendidly appointed hotel which in the summer season has a large patronage. The Waukeag House has sixty rooms and is kept by Mr. Stillman F. White. The House was reopened to the public on Saturday last. The view of Frenchman's Bay and the Mt. Desert hills is surpassingly lovely. More charming scenery can hardly be found on the American continent. Sullivan is destined during the summer season to be thronged with visitors. Steamers now make regular connection with Bar Harbor and Rockland.

SULLIVAN.—Special interest is taken in the Sullivan which is the representative mine of the district. Under the skillful superintendency of Mr. B. P. Tilden the work is progressing favorably. Mr. Tilden has rare qualifications as a superintendent and the Sullivan has been fortunate in securing his valuable services. Mr. Messer recently resigned as foreman and the resignation has been accepted. Mr. John Galt, recently from Glasgow, is Supt. Tilden's general assistant and is now in charge of the construction of the mill. The buildings of the company embrace shaft house No. 1, 20 ft. by 20 ft., shaft house No. 2, 40 by 70 feet, blacksmith shop and ore house, 20 by 60 ft., and an office. The machinery comprises two 35 horse power boilers manufactured by E. Hodge of East Boston, two Copeland & Bacon hoisting engines and a Clayton duplex air compressor to run six drills. The gallow's frame is 30 ft. from the floor of the shaft house. The wire rope used is one inch in diameter. The vertical shaft is now down 74 ft. in the rock and 90 ft. from the deck and progress is being made at the rate of 8 to 10 ft. per week. The drills are being used only by day. The Johnson drill works very satisfactorily. It is not proposed to make a crosscut until a depth of 160 feet is reached which will probably be by about the first of July. The old shaft follows the vein and is now down 170 ft. on an incline and a winze extends down 18 feet further. On the 65 ft. level a drift was driven 200 ft. to the west and 100 ft. to the east and at the 130 ft. level a drift was driven 87 ft. to the west and 54 ft. to the east. This shaft will not be extended down any further and the drifts run will be connected with the vertical shaft as soon as that has attained sufficient depth. The mill building will be 72 ft. by 52 ft. in size and will be situated to the east of the other buildings. The trenches are dug, the stone foundation will at once be laid and it is thought that the frame of the mill will be up and covered in ten days. It will be a five stamp dry crushing mill supplied with all modern improvements. The machinery will consist of five stamp battery of 750 pound stamps, mechanical roasting furnace, revolving chlorodizing furnace, two 5 ft. amalgamating pans, 4 ft. cleaner pan, 8 ft. settler, Blake rock breaker or crusher and revolving drying furnace. The process of treating the ore will be as follows: the ore will be brought from the dump and pass through the rock breaker coming out about the size of a walnut. It then falls from that into the drying furnace which is like a cylindrical coffee roaster, the ore is then dried and all the moisture taken out. The ore is then passed automatically to Tullock's self feeder which is a hopper like a great funnel running on a track facing the battery. Each blow of the stamp shakes the right amount of ore into the battery and the battery crushes the ore into pulp fine enough to pass through a screen of forty meshes to the inch. The ore falls from under the screen into troughs or channels and moved by an Archimedian screw to the elevator which lifts it to the hopper above the roasting furnace. In the furnace it is charged with about 6 per cent. of common salt (chloride of sodium) and then the furnace is set in motion and the ore is kept at red heat in the flames for from 6 to 10 hours. The object of this roasting is to transform the silver into the chloride of silver. When the roasting is com-

pleted it is drawn from the furnace, cooled and then carried in a car to the amalgamating pans, charged in charges of about fifteen hundred pounds with quicksilver and water enough added to bring it to the right consistency. The pans are simply stirring and grinding machines and thoroughly mix the mass into a fine mud during which the silver leaves the other combinations and unites with the quicksilver. When the process which requires from one to three hours is completed the mud is washed into the settlers and diluted with a constant stream of water and stirred up by rotary motion. The light sand flows off and the silver ore not acted upon and the silver quicksilver sinks. After all the sand is washed the residuum is placed in a cleaner pan and stirred about, skimmed and the quicksilver with the silver is drawn off and strained through a canvass bag, the free quicksilver passes through the bag but the amalgam will remain in the bag. The amalgam is then placed in a retort or cylinder and raised to a red heat till the mercury is driven off. The mercury is carried through a worm or condensing apparatus and is thus saved to be used again. When the retort is cool it is opened and the silver is found in the form of a sponge. All that remains is to melt and mould the silver into ingots. The mill has been made by Beckett & McDowell at Arlington, New Jersey, and under the terms of the contract it was to be delivered in New York on Saturday last. It is expected that the mill will be in operation by the first of July. The ore from the Sullivan mine comprises iron pyrites, copper pyrites, stephanite, ruby silver, native silver, argentiferous zinc blende, argentiferous galena and it is thought some black sulphurets of silver. The capacity of the mill will probably be one and one-half tons per day to each stamp. There are now 1,000 tons of ore on the dump and 200 tons stowed in the drifts.

MILTON.—The works of the Milton Mining and Milling Company are the great attraction of Sullivan. The spacious and elegant buildings, the costly and elaborate machinery and the thorough condition of all the appointments inspires one with confidence that mining in the Sullivan district is destined to be permanent. The Milton works are surely the most elaborate east of the Rockies and we are confident that in appearance and general utility they are not surpassed on the globe. The high state of perfection which has been reached is due almost entirely to the exertions of the active and untiring Superintendent, Mr. John Shoenbar, who brings to the position a rare combination of qualifications. Mr. Shoenbar is a thorough master of mining and takes just pride in the excellent work done at the Milton under his supervision. Mr. Shoenbar is one of the most genial of men and is ever courteous and obliging. The Milton works have been several times described at considerable length in these columns. The large shaft house is 101ft. by 32ft. in length, and one half of the building is three stories in height and the remainder is two stories. A boiler of 60 horse power from the manufactory of E. Hodge of East Boston has been put in place during the past week by the side of one of the same power. A Burleigh air compressor, an air tank 12ft. by 54 inches in size and 3 Burleigh power drills are on the way and as soon as they arrive the mine will be supplied with a complete outfit for sinking and drifting. Shaft No. 1 is now down 130 feet and Shaft No. 2 is down 110 feet. Both are very substantially timbered and will be sunk to a depth of 150 feet before stations will be cut, after which the two shafts will be connected. The lofty gallow's frame is 35 feet high from the floor of the shaft house.

PINE TREE.—The Pine tree is between the Sullivan and Milton. The shaft has been sunk vertically to a depth of 126 feet. The shaft is three compartment, two 4 ft. by 4 1-2 ft. and one 3 ft. by 4 1-2 ft. On the 125 ft. level a cross cut has been run 31 ft. to the vein and a drift has been extended 36 ft. on the vein. The drift is advancing in good ore and when in a few feet further a winze will be started on the ore body. There has recently been a change in the management and the company

which now controls the property propose to equip the mine in a very thorough manner. The present temporary structures will be replaced by large and handsome buildings and the mine will be supplied with improved and costly machinery. The new shaft house which will soon be erected will be 65 feet by 28 ft. and will be 3 stories in height with an ell. It is understood that the Pine Tree will soon be listed on the New York Stock Exchange. Mr. E. G. Johnston is the able Superintendent.

WAUKEAG.—The shaft has been sunk vertically to a depth of 146 feet and a crosscut on the 142 foot level has been extended 40 feet towards the vein. The shaft is three compartment and is 4 ft by 4ft in the clear. Johnson drills have been ordered. The hoisting works are of English make, having been manufactured by R. Roger. The boiler is of 15 horse power and was made by Messrs. Kendall & Roberts of Cambridgeport. The shaft house is 40ft by 30ft and the ore house is 100ft by 35ft. Superintendent Tilden, of the Sullivan, has the superintendency of the work.

FANEUIL HALL AND SULLIVAN.—The property adjoins the Waukeag. A large shaft house 80 ft. by 30 ft. is to be erected soon and the stone foundation is now being laid. Steam machinery is to be introduced before the sinking of the shaft commences.

PORTLAND SULLIVAN.—The property adjoins the Faneuil Hall and Sullivan. There has been much delay in the arrival of lumber and tools. Supt. Hutchinson has been at Sullivan some weeks waiting for the vessel to arrive with the supplies. On Saturday last work had not been commenced.

SULLIVAN FALLS.—A shaft house has been erected and the shaft is being sunk rapidly. The shaft is now down over thirty feet. A Centennial pump is being used. Some handsome ore is being taken from the bottom of the shaft. The shaft house is 15 feet by 22 feet in size. Mr. Clapham is superintending the work. The mine is distant about a quarter of a mile in an easterly direction from the Milton and just to the northern side of the carriage road in a hollow or depression.

MILLBROOK.—The shaft house is 72ft. by 24ft. The new machinery works very smoothly. The shaft is vertical and is now down 85 feet. One of Knowles' powerful pumps is used. A Burleigh compressor is soon to be obtained to work the drills. The mine is very thoroughly but not extravagantly equipped. The Millbrook shaft is not a hundred feet distant from the shaft of the Sullivan Falls, the brook forming the dividing line between the properties. Mr. Sidney E. Horne is the superintendent.

ASHLEY.—The shaft house is located on the crest of a hill several hundred feet east of the Millbrook. The shaft is vertical and has reached 120 ft. level. A crosscut will be commenced soon. The shaft is timbered to within 8 feet of the bottom. The Bryer Rock Drill has been given a thorough trial and two of these drills have been ordered. A Clayton Air Compressor is expected soon. Mr. Wendall Horne is the energetic and capable superintendent.

BEACON HILL.—The shaft is down between 45 and 50 feet and partially timbered. A well defined quartz vein of considerable width well mineralized with galena has been opened. A shaft house 15 ft. by 22 ft. has just been completed. Mr. Francis Worcester, Jr., is the owner of the property and he proposes to organize a company soon with prominent Boston gentlemen as officers.

CONNERS.—The mine is located but a short distance east of the Waukeag House. The shaft is down a little more than twenty feet. Some good ore has been taken out.

GOLDEN CIRCLE.—The property of the Golden Circle Mining and Milling Company embraces Seward's Island off Waukeag Point at East Sullivan. Prof. W. F. Stewart recently visited the Island and has prepared a very elaborate report. The Pro-

fessor says: "That the Golden Circle is a veritable gold mine is no longer problematical," and further says, "The question whether gold as well as silver exists in paying quantities in Maine has been finally and fairly settled by the discovery of its genuine auriferous quartz lode on Seward's Island.

Gouldsboro.

Gouldsboro is distant about 10 miles from Sullivan. The drive is one of great interest as the surrounding country abounds in grand and romantic scenery. The view of Frenchman's Bay with its many islands and of the towering hills of Mt. Desert is one long to be cherished. The mines of the Gouldsboro district are located principally at West Bay. There are two well kept hotels here, the Bay View and the Traveller's Home. The Bay View has recently been enlarged by the addition of another story and the capacity of the building is increased six rooms. A vessel has recently arrived with a cargo of lumber for the mines and it is being rapidly unloaded.

GOULDSBORO.—Great interest is attached to the Gouldsboro as it is the pioneer mine of the district. There is no mine in the State which has made a more brilliant showing. The shaft is now about 90 ft. in depth. Work has been commenced in the open cut with the steam drill and it is the intention to tunnel till the shaft is reached. The open cut is in 135 ft. and 33 ft. in depth and the tunnel will have to be run about 75 ft. to reach the shaft. A large quantity of splendid mineral is to be seen in the open cut. The old shaft house has been moved down by the road and will be used as a laboratory and office. A handsome shaft house 84 ft. by 30 ft. is to be at once erected and will be supplied with improved machinery. Mr. W. I. Valentine, a mining man of wide experience, is the Superintendent. The mill to be erected by Mr. Worcester for the treatment of the Gouldsboro ores will in a few weeks be in place. Mr. Wilford arrived at Gouldsboro on Saturday last and located the site for the mill. In a short time two new dams are to be built on a stream in the vicinity and then a very excellent mill privilege will be secured.

WEST BAY.—The property of the West Bay is separated from the Gouldsboro by the brook. The shaft is now 12 feet in the ledge and 20 feet from the platform, and considerable quantities of very rich silver ore have been removed. A Centennial pump is being used. A shaft house 26 feet by 40 feet has been framed and boarded.

HOME.—Work has been discontinued for a few days preparatory to putting in steam machinery, and the shafts are full of water. The main shaft is down 81 feet and the ore in the bottom of the shaft contains considerable copper and galena. The very marked improvement in the ore is encouraging. The company have excellent buildings, two shafts down a considerable depth and a length of about three quarters of a mile on the vein and the prospects for the future are bright.

WEST AND SOWLE.—The shaft is now 70 feet in depth and a drift has been run 15 feet under the bay. Considerable prospecting has recently been done on the north end of the property in the attempt to discover the Gouldsboro vein which unquestionably crosses the property. The shaft of the West and Sowle is on the shore of this bay about a mile distant from the Gouldsboro.

GLOBE.—The mine is located on the shore just across the bay from the Sowle and West. The shaft has been making good progress and is down about 40 feet. Some very handsome galena ore has been taken from the shaft.

CHERRYFIELD.—The work is making good progress. A considerable quantity of argentiferous galena of a high grade is being taken from the mine. The Cherryfield was never before looking as well as now.

CLARK.—The Ellsworth *American* states that the Clark Silver Mining Company have added lately to their treasury fund in stock and money, and will soon start another shaft which they

intend to let out on contract, to be put down one hundred feet, and will continue to work shaft No. 1 as heretofore. Ore from the shaft has been looking so favorable of late, that a large amount of stock has been bought up by some of the owners during the past week, and a good rise on the stock is looked for, as soon as the present lull in trade is over. The second shaft will be started on the vein. The one now being worked is expected to hit the main vein at a depth of 80 feet.

JACKSON.—A vein of gold-bearing quartz has been discovered in the town of Jackson on the farm of James Page. It is said that an assay by State Assayer Bartlett gave \$247.20 in gold and \$5.13 silver to the ton. A company to operate upon the property has been organized under the name of the Jackson Gold Mining and Milling Co. with the following as officers: President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. S. Hayford, Brooks; Directors, Geo. B. Ferguson, Albert Gammon of Belfast, Joseph Howe of Jackson, John H. Gordon, M. Chase, J. S. Watts, T. S. Staples of Brooks, E. H. Nealley of Monroe, J. Cary French of Colorado; Superintendent, C. E. Lane of Brooks. The capital is \$500,000 in 100,000 \$5 shares, of which 40,000 are in the treasury. A crew of men are now engaged sinking a shaft on the property. The quartz vein is ten feet in width.

EAGLE BROOK.—In the list of officers of the Eagle Brook Silver Mining Company as published by us last week there were some errors. The following is a full list: President, S. H. Doten; Treasurer, A. N. Hawes; Secretary, I. A. Packard; Directors, S. H. Doten, C. W. Hobbs, A. B. Stephenson, C. M. Baine, of Portland and Henry W. Sargent of Sedgwick.

COMMONWEALTH.—The Commonwealth Copper Mining Company was recently organized. J. T. Hinckley, Esq., of Blue Hill, is one of the officers. The property of the company is located on Cape Rozier in the town of Brooksville.

DEER ISLE.—The shaft has been sunk to a depth of about 60 feet and a drift has been run south 12 ft.

DEER ISLE, JR.—The shaft is sinking and a depth of 30 feet has now been reached.

WEST CAMDEN.—The West Camden Mining and Smelting Company have completed their organization by the election of the following officers: President, Geo. W. Berry, Rockland; Treasurer, J. A. Clark, West Camden; Secretary, G. A. Miller, West Camden; Directors, Geo. W. Berry, T. P. Pierce, F. F. Phillips, of Rockland, P. J. Carleton, E. W. Harkness, of Rockport, Isaac Williams, of West Camden and Tobias Lord, Jr. of Standish.

LINCOLNVILLE.—The Lincolnville Gold and Silver Mining Company was recently organized with a capital of \$500,000 divided into \$5 shares. The following officers were chosen: President, Ambrose Spaulding, Lincolnville; Treasurer, P. P. Freeman, Camden; Secretary, E. C. Freeman, Lincolnville; Directors, Ambrose Spaulding, F. O. Young, P. K. Frohock, Lincolnville, P. P. Freeman, James Frye, Camden, J. D. Tucker, Belfast, A. J. Maker, Rockland; Superintendent, Ambrose Spaulding. The vein is of white quartz, from 20 to 28 feet wide, and is located about four miles from Camden, on the Belfast stage road.

NEW ST. ALBANS.—The New St. Albans Silver Mining and Smelting Co. was recently organized at Brooks, Me., with the following list of officers: President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks; Directors, M. Chase, John H. Gordon, G. A. Libbey of Brooks, D. H. Smith of Winterport, D. N. Ewell of Frankfort, Irving Rice of Bangor and D. W. Keys of Boston; Supt. C. E. Lane of Brooks. The capital is \$500,000 divided into 100,000 shares of a par value of \$5. The mine is located in the town of St. Albans.

BULLION.—The Bullion has its shaft down over sixty feet, and is making rapid progress. Feeders have already been cut through, which speak of the approach to the main ore channel.

The engine and pump run faultlessly, and everything seems to slip along in its channel with clock-like regularity. A neat and good-sized office is already completed, besides a magazine for the storage of explosives. The spot for the concentrating mill is already levelled off and work upon the foundation will soon begin.—[*Boston Globe*.]

LEBANON ACTON.—The Lebanon Acton shows most remarkable progress. Since my last visit the shaft house has been entirely completed, the engine and pump set up, and the shaft sunk to a depth of over forty feet. The feeders have been growing richer and richer as depth has been attained, and now considerable galena is being obtained, with more or less native silver. It is thought by those interested in the mine that the vein will be tapped at something under seventy feet. The present indications would seem to point to that belief. There is not a property upon the lode that has shown such rapid and at the same time such thorough work as the Lebanon Acton.—[*Boston Globe*.]

Opinion of a Mining Superintendent.

In a recent edition of the Territorial Enterprise of Virginia City, Nevada, appears a very sensible letter from Mr. Timothy O'Connell, who is now in charge of the City of Boston mine at Blue Hill as Superintendent. In the introduction of his letter he says: "The only and I hope all sufficient reason I can assign for the delay was my anxiety to see and learn all I possibly could regarding the mines here. I can candidly tell you that I am most agreeably surprised to see so much promising surface indications of mineral." After a description of several of the Blue Hill mines he says: "The sum and substance of my idea of the mines in Maine is that there are some very valuable mines and any amount of wildcats." In closing he says: "There is one thing that I have tried to impress upon mine owners and that is the necessity of having a thorough mining man of experience undertaking to make it right. That will be the fate of ten mines out of fifteen here. Work will be started with a man as Superintendent who knows comparatively nothing about the business and as a natural result the work will be done poorly and eventually the owners will find out that they might as well have no one. Plenty of thorough mining men can be had if they are sent for, but owners of mining properties must bear in mind that they will not give their experience for any paltry sum. A mining man who thoroughly understands everything in and out of the business is the cheapest for a mine, no matter how large the salary paid. A cheap superintendent is always found to be the most expensive in the end."

Nuggets.

A rich find is reported on the farm of Mr. Moon of Hancock.

An antimony mine in Carmel is about being opened by Bangor parties.

Bar Harbor is to have a semi-weekly paper during the summer months.

The schooner Harvard H. Havey makes semi-monthly trips between Boston and Sullivan.

A large number of farms in Cutler, Washington County, have been bonded for their mineral.

Mr. E. Simpson, of Sullivan, recently showed us some handsome ore from Ash's Point near Sullivan.

A correspondent of the Rockland *Opinion* says the free use of powder in the mines reminds one of Fourth of July.

H. L. Cleaves has purchased the livery stable adjoining the Waukeag House in Sullivan and is soon to open another stable at West Sullivan.

Capt. D. T. Tyler has sold his farm at Green's Landing, upon which gold ore has been found, to New York parties for \$1000.—[*Rockland Opinion*.]

For the accommodation of the travelling public three trains

are now being run each way daily on the Bucksport Railroad between Bangor and Bucksport.

A lively interest is being taken in mining matters in Burlington and Lowell in the northern portion of Penobscot county, and several properties are being developed.

Mr. Homer H. Emerson, of Ellsworth, and other parties have been bonding properties the past few days in the vicinity of South West Harbor on Mount Desert Island.

A steam launch 40 feet in length is being built in Portland for Curtis, Proctor & Co. and will make regular trips between Long Island and Blue Hill during the summer.

Francis Worcester, Esq., of Ellsworth, is about to erect at Sullivan a handsome cottage which he will use as a summer home. The grounds have already been graded.

The Portland Argus says: "Next week Prof. Bartlett is to present to those interested in mining a proposition for the establishment of sampling and smelting works in Portland."

Capt. Bennett, of New York, has arrived at Guilford and is to open the Guilford mine. Some years since quite an amount of money was expended in the development of this property.

On Saturday a workman by the name of Keen had his nose broken while at work in the bottom of the shaft of the Granger mine at Blue Hill by a piece of rock falling and striking him in the face.

The Sanford Steamship Line have recently secured another large steamship in addition to the Katahdin and Cambridge and during the summer season will run a daily line between Boston and the Penobscot.

Supt. Wendall Horne, of the Ashley, is soon to build a dwelling house at Sullivan a short distance from the Ashley mine. It will be remembered that early in the winter the house he was occupying was destroyed by fire.

The difficulty between Amburst and Hayward, the proprietors of the popular West End Hotel at Bar Harbor, has been settled and it is understood that the house will be under the charge during the ensuing summer of O. M. Shaw, Esq., of the Falmouth Hotel in Portland.

The steamer City of Richmond is undergoing thorough overhauling at Portland and will have her saloon extended forward and fourteen state rooms will be added to her. Capt. Dennison will command her as usual and she will run between Portland and Mt. Desert.

The Hartford Mica Mining Company have begun work on the south side of the mine at Groton, N. H., finding a superior quality of mica. The shaft is down about 30 feet and the quality is much better than at the surface, while the supply is apparently inexhaustible. The working force will be increased to fifty men at once.—[*Boston Globe*.]

A correspondent says there is a newly discovered copper vein on Cape Rozier, Brooksville, that bids fair at no distant day to attract a good deal of public attention. It has been christened the "Mansfield," and is as yet wholly undeveloped, but the surface showing is very fine, and all the indications are those of a large heavily mineralized lode. Work will be commenced on the vein at an early day.

A discovery has recently been made on Taft's Point at West Gouldsboro. A vein from one-half to an inch in width and showing very handsome galena has been traced some little distance and it is proposed to sink several feet in the belief that the vein will widen. The property is surely worthy of some development. Mr. J. H. West of Franklin and Mr. H. B. Saunders of Ellsworth are interested in the property.

The town of Harrington in Washington County promises to develop into a rich mining country. A vein four feet in width and showing handsome copper sulphurets has been traced four miles and Francis Worcester, Esq., of Ellsworth, has secured the mineral right of the property the entire distance on the

vein. A prospect hole is now being sunk on the vein at a point about one mile distant from Harrington and on the road to Epping. A company will soon be organized and the property will be thoroughly developed. Mr. W. F. Keith, formerly of Newton, Mass., has charge of the works.

From the Portland Mining Exchange we have the following: Prof. Bartlett has been called to New York to superintend the first run of a new furnace. Several tons of Blue Hill copper ore will be experimented upon. Samples of 30 tons of ore from the Deer Isle mine have been sent to Liverpool. The ore will be sold to the highest bidder, and shipped immediately. Also samples of 60 tons of Cherryfield silver ore have been sent which will be sold in the same way. This looks like business. When people begin to see there is an actual market for the products of our mines they will quickly become believers in them.

Closing Prices at Boston Stock Exchange,
FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MAY 5, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Astec	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2
Atlantic L. S.	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2	19 1/2
Allouez	34 1/2	35	32	32 1/2	32	32 1/2	34	34	30	30	34	34
B. Antimony	8 3/4	8 3/4	8	8 1/4	7 1/2	7 3/4	7 1/2	7 3/4	7	7	5	7
Blue Hill Copper	235 1/2	235 1/2	235	235 1/2	235	235 1/2	235	235 1/2	235	235 1/2	234	234
Calumet & Hecla	12 1/2	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2	8	8	9	9
Central	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3	2 1/2	3
Copper Falls	15 1/2	16 1/2	15 1/2	16 1/2	17	17 1/2	15 1/2	16 1/2	16 1/2	16 1/2	16	18
Douglas	20	20	16	19	16	17	17	17	16	16	18	18
Duncan Silver	5 1/2	6 1/2	5 1/2	6 1/2	5 1/2	6 1/2	5 1/2	6 1/2	5 1/2	6 1/2	6	6
Franklin	1 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Harshaw	39	39	37	39	37	39	37	39	37	39	37 1/2	37 1/2
Huron	20	20	20 1/2	20 1/2	20	20 1/2	20	20 1/2	20	20 1/2	20	20
Mesnard	27	29	25 1/2	25 1/2	25 1/2	25 1/2	23 1/2	23 1/2	23	23	29	29
National	5 1/2	5 1/2	5 1/2	5 1/2	5	5	4 1/2	4 1/2	4 1/2	4 1/2	5 1/2	5 1/2
Osceola	16	16	2	2	2	2	2	2	2	2	2	2
Pewabic (new stock)	2	2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Phoenix	10	10	9	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9	9	8	8
Quincy	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Ridge	16	16	2	2	2	2	2	2	2	2	2	2
Silver Islet	2	2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Star	10	10	9	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9	9	8	8
Sullivan	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Waukeag	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MAY 5, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
ACTON	15	15	15	15	15	15	15	15	15	15	15	15
ASHLEY	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
ASHMOSE	1 60	1 60	1 60	1 60	1 60	1 60	1 60	1 60	1 60	1 60	1 60	1 60
AUBURN	1 35	1 35	1 35	1 35	1 35	1 35	1 35	1 35	1 35	1 35	1 35	1 35
Boston Acton	21	21	21	21	21	21	21	21	21	21	21	21
Bush	8 25	8 25	8 25	8 25	8 25	8 25	8 25	8 25	8 25	8 25	8 25	8 25
Blue Hill	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Camden	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Cherryfield	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50
Darling	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Deer Isle	4 50	4 50	4 50	4 50	4 50	4 50	4 50	4 50	4 50	4 50	4 50	4 50
Douglas	55	55	55	55	55	55	55	55	55	55	55	55
Foxville	8	8	8	8	8	8	8	8	8	8	8	8
Fort Knox	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00
Gouldsborough	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25
Harrington	25	25	25	25	25	25	25	25	25	25	25	25
Home	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50
Milton	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50
Mineral Hill	30	30	30	30	30	30	30	30	30	30	30	30
Norumbega	15	15	15	15	15	15	15	15	15	15	15	15
Owls Head	10	10	10	10	10	10	10	10	10	10	10	10
Petit Menan	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Portland Acton	7	7	7	7	7	7	7	7	7	7	7	7
Robert Hannett	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25
Stover Hill	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00
Sullivan	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00
Twin Lead	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10
Waukeag	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10
Young Hecla	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10

Several Maine capitalists are interested in gold claims on the Claudiere.

HENRY McLAUGHLIN, Storage and Commission Warehouse,

FRONT STREET, - BANGOR, ME.

AGENT FOR

Ingersoll Rock Drill Co.'s Rock Drills

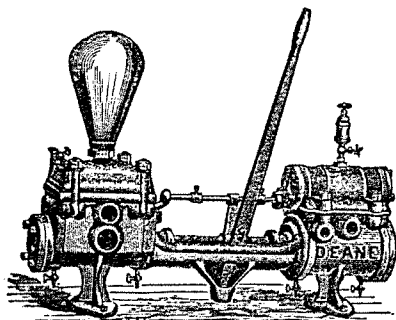
And AIR COMPRESSORS.

LAFLIN & RAND

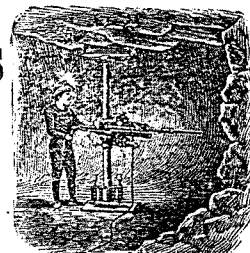
BLASTING and SPORTING POWDER,

Magnetic Batteries,

WIRES and FUSES, OF ALL KINDS.



Deane Steam Pump Co., Holyoke, Mass., manufacturers of Steam Pumps for every possible work.



Illustrating Drilling with the Ingersoll Drill, U. S. Gov't Works. Hall Gate—Ingersoll Rock Drill Co., 1 1/2 Park Place, N. Y., manufacturers of celebrated Ingersoll Rock Drills and Improved Air Compressors.

DEANE STEAM PUMP CO.'S MINING AND BOILER PUMPS.

Copeland & Bacon's Hoisting Machinery for Mines and Quarries.

H. W. JOHN'S MANUF'G CO.'S ASBESTOS PAINTS

High Explosives and Mining Supplies of All Kinds.

ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Loughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 1/2 Lisbon St., Lewiston.

BLUE HILL COPPER MINING & SMELTING CO., Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston; Treasurer, Thos. H. Lord; Secretary, John Merrill, Blue Hill; Directors, S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manering Emery.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden; Treasurer, and Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jun. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

BLANCHARD SLATE CO., of Maine. Quarry in operation at terminus of Bangor and Piscataquis R. R. Quality and natural advantages unsurpassed. Dumpage and drainage unequalled. Railroad transportation adjoining. Stock for sale. Sections leased on favorable terms. Capitalists invited to inspect.
A. C. HAMLIN, President, Bangor.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1873.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington; Treasurer and Secretary, E. C. Smart, Bangor; Directors, J. L. Hodsdon, Bangor, Geo. Brooks, Orrington, E. C. Smart, Bangor, H. P. Blood, Bangor, Geo. R. Smith, Hallowell.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. March, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPDEN SILVER MINING CO., Hampden, Me. Incorporated by special act, February, 1880.

Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Loughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Hackins, James Nealey, Jr., Chas. E. Field.

DIRIGO SILVER MINING CO.,
Acton, Me. Incorporated, Jan. 1879.
Capital, \$500,000; Shares \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, No. Lebanon, Me.; Directors, I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.
W. A. GOULD, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hinkley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAAC S. GRANT, Supt.

EDGE MOGGIN SILVER MINING COMPANY,
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owbyrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.
Office, No. 1 Pemberton Square, Room 4, Boston.

FORT KNOX SILVER MINING COMPANY
Prospect, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors—Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.
A. R. FELLOWS, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Laffan, Jeremiah Wooster.

GARDNER MOUNTAIN COPPER MINING CO.
Littleton, N. H. Incorporated under laws of
Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.
President, Samuel Atwood, Winterport, Me.;
Treasurer, Henry T. Sanborn, Winterport, Me.;
Secretary, Walter Haley, Winterport, Me.; Direc-
tors, Samuel Atwood, Hanson Gregory, Jr., E. C.
Arey, Walter Haley, Henry T. Sanborn, John At-
wood, G. B. Putnam.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. M. Hall, Ellsworth; Treasurer,
Geo. W. Fiske, Ellsworth; Secretary, E. K. Hop-
kins, Ellsworth; Directors—Henry M. Hall, Geo.
W. Fiske, E. K. Hopkins, Robert Mullan, E. P.
Reed.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable;
Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer,
Geo. A. Gibson of Boston; Secretary, E. G. John-
ston of Sullivan; Directors—O. H. Perry, G. A. Gib-
son, E. G. Johnston and Geo. W. Pettengill.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury
Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth.
Treasurer, Charles C. Burrill, Ellsworth. Secre-
tary, J. B. Redman, Ellsworth. Directors—A. P.
Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J.
Morrison; Secretary, Geo. W. Fiske; Directors—
Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stu-
art, J. T. Crippen, S. J. Morrison.

HARRINGTON SILVER MINING COMPANY,
Carmel, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, E. C. Nichols, Bangor; Vice-
President, Ezra L. Sterns, Bangor; Treasurer, C.
P. Wiggin, Bangor; Secretary, E. M. Hersey, Ban-
gor. Directors—John S. Jenness, James Little-
field, James Tobin, James A. Davis, Hon. H. C.
Martin. WM. H. DARLING, Supt.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated,
April, 1880.
Capital, \$500,000. Shares, \$5.00 each. Treasury
Fund, 40,000 shares.
President, Geo. B. Ferguson, Belfast; Treasurer,
Albert Gammon, Belfast; Secretary, T. G. Hayford,
Brooks. Directors—Geo. B. Ferguson, Albert Gam-
mon, Belfast; Joseph Howe, Jackson; John H. Gordon,
M. Chase, J. S. Watts, T. S. Staples, Brooks; E. H.
Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury
Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice-
President, John S. Jenness, Bangor; Treasurer, W.
J. Webb, Bangor; Secretary, W. Lee Johnson, Ban-
gor; Directors—Wm. H. Darling, John S. Jenness,
Hiram B. Williams, W. Oscar Arnold, Jacob Stern,
Manley G. Trask, Geo. W. Sweetser.

LEBANON ACTON SILVER MINING COMPY,
Acton, York County, Me. Incorporated, Feb.,
1880.
Office—29 Exchange, corner Milk Street, Port-
land, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1
each; Stock unassessable. 100,000 shares in the
Treasury.
President, Hugh J. Chisholm; Treasurer, A. P.
Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treas-
urer, Dr. L. W. Hodgkins, Ellsworth; Directors—
H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr.
K. H. Sweet, James W. Davis.

LADY ELGIN COPPER MINING COMPANY.
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund
50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer,
Porter Nealey, Bangor; Secretary, E. C. Pearson,
Bangor; Directors—Wm. T. Pearson, Porter Nealey,
Edgar C. Pearson, Emory G. Ingalls, of Ban-
gor; Alvin Rodliff, of Boston; Arthur S. Newman,
of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treas-
urer, Thomas Dalby, Boston. Secretary, Sidney
E. Horne, Sullivan. Directors—L. F. Morse,
Sidney E. Horne, James R. Grose, Thomas Dalby,
Edward Worcester.

SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY.
Organized under the laws of the State of
Maine. Capital Stock \$500,000; Number of Shares
100,000; Par Value \$5; Full paid and forever un-
assessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer,
A. E. Fernald, Winterport; Secretary, Walter Hal-
ley, Winterport; Directors—D. H. Smith, Winter-
port; E. C. Arey, Winterport; John Pierce, Frank-
fort; W. G. Frye, Belfast; John Atwood, Boston;
Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office,
4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secre-
tary, W. O. Arnold of Bangor, Me.; Treasurer
G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value
\$5 each. Unassessable. J. SHOENBAK, Supt.

MCFAIRLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treas-
urer, I. S. Johnson, Bangor; Secretary, A. W.
Cushman, Ellsworth; Directors—Henry Whiting,
I. S. Johnson, S. N. McFarland, F. A. McLaughlin,
A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAlister, Bucksport; Treas-
urer, A. C. Swazey, Bucksport; Secretary, F. H.
Moses, Bucksport; Directors—G. W. McAlister,
J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H.
Moses, E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessa-
ble; Treasury Fund, 25,000 shares.
Geo. F. Calef, President, of Saco; Ferguson
Haines, Treasurer, of Biddeford; Frank Foss, Secre-
tary, of Saco; Directors—Geo. F. Calef, Alfred
Patterson, Dr. J. E. L. Kimball, of Saco, Charles M.
Moses, Edwin Stone, Frank A. Sawyer, of Bidde-
ford. JERE G. SHAW, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treas-
ury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President,
J. W. Milliken, Bangor; Treasurer, W. P. Hub-
bard, Bangor; Secretary, E. H. Dakin, Bangor;
Directors—J. S. Ricker, J. W. Milliken, W. H. Dar-
ling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fow-
ler. MOSES W. EMERY, Supt.

**NEW ST. ALBANS SILVER MINING AND
SMELTING CO.,** St. Albans, Me. Incorporated,
April, 1880.
Capital, \$500,000. Shares, \$5.00 each.
President, M. Chase, Brooks; Treasurer and Secre-
tary, John H. Gordon, Brooks. Directors—M. Chase,
John H. Gordon, G. A. Libby, Brooks; Dr. H. Smith,
Winterport; D. N. Ewell, Frankfort; Irving Rice, Ban-
gor; D. W. Keyes, Boston.
C. E. LANE, Brooks; Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated,
Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury
Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treas-
urer, L. B. Wyman, Ellsworth; Secretary, J. B.
Redman, Ellsworth; Directors—E. H. Greeley, J.
W. Davis, L. B. Wyman. W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated,
January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and
G, 3d floor.
President, L. Foster Morse, Boston; Secretary,
Samuel Annear, Blue Hill; Treasurer, Jno. H.
Faxon, Jr., Boston; Directors—L. Foster Morse,
Boston; Samuel Annear, Blue Hill, Me.; Geo. G.
Barker, Salem, Mass.; Thomas H. Guernsey, Bos-
ton; Joshua S. Dunclee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-
President, J. S. Ricker, Bangor. Treasurer, Chas.
Hight, Bangor. Secretary, W. J. Patten, Bangor.
Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-
sander Palmer, J. W. Thompson, George F. Dil-
lingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury
Fund, 40,000 Shares.
President, H. Whiting, Ellsworth. Treasurer,
A. A. Bartlett, Ellsworth. Secretary, George A.
Parcher, Ellsworth. Directors—Henry Whiting,
Marcus Mullan, James F. Davis, Guy Mullan, A.
A. Bartlett. P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund
\$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm.
E. Brown, Bangor; Secretary, Wm. L. Johnson,
Bangor; Directors—F. O. Beal, W. J. Webb, Geo.
W. Knight, Ezra L. Sterns, Hon. F. M. Laughton,
A. H. Thaxter, B. B. Thatcher, Bangor; A. H.
Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and
Secretary, Wm. F. Hubbard, Bangor. Directors—
J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M.
Laughton, Bangor; Melvin Preble, Bangor; Geo.
Brooks, Orlington; W. H. Darling, Blue Hill;
Thomas White, Bangor.
ROBERT O'ROUKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incor-
porated, April, 1875.
Capital, \$500,000; Shares, \$10 each; Unasses-
sable; Treasury Fund, 50,000 Shares.
President, Geo. B. Brown, Boston; Secretary, W.
O. Arnold, Bangor; Treasurer, F. R. Nourse, Bos-
ton; Directors, Geo. B. Brown, Joseph G. Russel,
Francis A. Osborn, Edward D. Hayden, Chas. F.
Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer,
J. S. Ricker, Bangor; Secretary, C. F. Bragg, Ban-
gor; Directors—W. P. Hubbard, J. S. Ricker, C. F.
Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H.
M. Bartlett.
SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incor-
porated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth;
Treasurer, C. C. Burrill, Ellsworth; Secretary, J.
B. Redman, Ellsworth; Directors, Hon Eugene
Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund
40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary
and Treasurer, G. S. Bean, Bangor; Directors—
James Adams, E. J. Swan, M. G. Trask, C. C. Bur-
rill, E. C. Nichols.
E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund
40,000 shares.
President, Capt. J. H. Hill; Vice-President,
James Emery; Treasurer, A. H. Genn; Secretary,
C. J. Cobb, all of Bucksport; Directors—J. H.
Hill, James Emery, Richard Snow, Howard Swa-
zey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury
Fund, 50,000 Shares.
President—David Bugbee, Bangor. Vice-Presi-
dent, Frank P. Wood, Bangor. Treasurer, John
S. Jenness, Bangor. Secretary, John R. Mason,
Bangor. Directors—David Bugbee, Frank P.
Wood, Charles Duff, J. S. Ricker, Samuel Sterns,
James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY.
On the Sullivan Lode, Sullivan, Me. Office
No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secre-
tary, W. O. Arnold, of Bangor, Me.; Treasurer,
Geo. E. Harrington, of Salem, Mass.; Directors, B.
S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E.
Harrington, W. E. Connor, L. Foster Morse, C. P.
Weston. Capital stock \$500,000—50,000 shares, par
value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secre-
tary and Treasurer, Harry C. Bliss, Bangor; Di-
rectors—Chas. I. Collamore, Alonzo Packard, Col-
lin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY.
On the Gouldsboro Lode, Gouldsboro, Me.
Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 32,000 Shares.
President, Joseph H. West, Franklin; Treas-
urer, H. B. Saunders, Ellsworth; Secretary, E. F.
Robinson, Ellsworth; Directors—Joseph H. West,
H. B. Saunders, John D. Hopkins, J. F. Whitcomb,
E. F. Robinson, A. K. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-Pres-
ident, Charles Hamlin, Bangor; Treasurer, John
R. Mason, Bangor; Secretary, W. F. Seavey, Ban-
gor; Directors—John S. Jenness, Charles Hamlin,
Samuel R. Prentiss, Wm. D. Swazey, William H.
Darling, James W. Davis.

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Copper Mining Co.

Offices—EAST BLUE HILL, ME.

Organized, 1880. Mines at Penobscot, Me.
Capital, \$500,000. Shares, \$5 each.
Treasury Fund.....\$150,000
President—FINDLEY J. WATT, East Blue Hill.
Secretary—FRANK H. BINDER, East Blue Hill.
Treasurer—JAMES WATT, Philadelphia.
Directors—James Watt, Christopher Binder, Joseph
H. Johnson, Findley J. Watt, Frank H. Binder, James
W. Snow, J. Wesley Leach.
Mines were examined and approved by Prof. Mon-
troville W. Dickeson.

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STEAM DRILLS and HIGH EXPLOSIVES.

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P. O. address, 304 Commercial St., Portland, Me.

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James Bailey, Josiah Burleigh, W. H. Sanborn, N. M.
Perkins & Co., Portland, Me.; Herrick & Byard, Sedg-
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H. A. TRIPP,

Counsellor & Attorney at Law

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CIVIL AND TOPOGRAPHICAL ENGINEER

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Porter Nealey, Bangor, Me.
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Harry B. Parker, Blue Hill, Me.
John A. Hale, Ellsworth, Me.
J. M. Fernald, Lewiston, Me.
Willard Small & Co., Auburn, Me.
James Nichols & Co., Calais, Me.
J. Frank Pierce, Augusta, Me.
John S. Caldwell, Belfast, Me.
Maine Mining Exchange, Boston, Mass.
Nichols, Williams & Co., Boston, Mass.
Geo. H. Flagg, Skowhegan.
H. M. Barnham, Oldtown.
Warren & Emery, Bucksport.

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tablishment.

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The stage leaves Bucksport daily, Sundays ex-
cepted, at 1 P. M. for Blue Hill and Sedgwick.
Returning, leaves Blue Hill, daily, Sundays ex-
cepted, at 8 A. M. for Bucksport.
Tickets sold at the depot in Bangor through to
Blue Hill, and by the Blue Hill driver through to
Bangor.

A. P. CURRIER & CO., Proprietors.

BANGOR AND BAR HARBOR

STEAMBOAT CO.

Bangor and Bluehill.

TWO TRIPS PER WEEK!

Steamer May Field



Leaves Bangor every TUESDAY
and THURSDAY at 8 A. M. for
Bluehill, touching Hampden at
8:30; Wintport, 9:30; Bucks-
port, 10:30; Sandy Point, 1:30; Fort
Point, 11; Castine, 12; connecting with boat to
Islesboro, arriving at Deer Isle at 2:00; Sedgwick
at 2:30, and Bluehill at 4:30 P. M.
Returning, leaves Bluehill every WEDNESDAY
and FRIDAY at 7:30 A. M. Sedgwick at 10:00, Deer
Isle at 10:30; Castine at 12:00, noon, connecting
with steamer for Islesboro and Belfast; Fort Point
at 1:00; Sandy Point at 1:30; Bucksport at 2:00, ar-
riving in Bangor at 4:00 P. M.

BAR HARBOR AND S. W. HARBOR.

Steamer City of Bangor

Leaves Bangor every SATURDAY at 8 A. M. for
Bar Harbor, touching at all landings except Blue-
hill, as above, making three trips per week be-
tween Bangor, Castine, Islesboro, Deer Isle and
Sedgwick.

Returning, leaves Bar Harbor every MONDAY at
6:30; S. W. Harbor at 8, arriving in Bangor at 4 A.
M. FRANK D. PULLEN, Agent.

Bangor, May 4.

Bucksport & Bangor Railroad



CHANGE OF TIME, MAY. 3d, 1880.

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.35	1.30 7.20
Arrive in Bucksport,	8.45	2.45 5.30

Direct connection is made with the two through
trains on Maine Central via E. & N. A. Railway;
also with Bangor & Pis cataquis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arrival
of morning train from Bangor, reaching Blue Hill
at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection
east, leave Bucksport 1.00 P. M.

apr30

L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this
line will leave India Wharf, Boston, and Franklin
Wharf, Portland, every evening (Sundays except-
ed) at 7 o'clock.

CONNECTIONS are made at Portland with
GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE
CENTRAL KNOX & LINCOLN Railroads, and with
Steamers of the BANGOR & MACHIAS LINE; and at
Boston with all lines for points South and West.

Tourists will find this one of the finest OCEAN
TRIPS on the New England coast.

WM. WEEKS,

Agent, Boston.

J. B. COYLE, JR.,

Gen. Ag't, Portland.

BANGOR AND ELLSWORTH STAGE LINE.

Stages leave Bangor for Ellsworth at 8 o'clock
A. M. and 3 P. M., or on arrival of Western trains
from Portland and Boston, connecting at Ells-
worth with stages for Bar Harbor, Sullivan and
surrounding towns. Good covered coaches run
over this line between Bangor and Ellsworth.
Extra teams run shed at all times, at reasonable
rates, at their stables in Bangor and Ellsworth.

JOHN M. HALE & CO.

Ellsworth, March 2, 1880.

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LEMUEL NICHOLS.....PROPRIETOR.



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All orders left at the Stable Office.
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HOUSE CARPENTERS**

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BANGOR, ME.**
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or wont keep time, trust it with

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3 Smith Block, Bangor, Me.

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LARGEST, AS WELL AS BEST

Assortments of Furniture

EVER SHOWN IN PORTLAND

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All Kinds of Musical Merchandise**ALL GOODS WARRANTED.**

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HENRY W. SPRATT.

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O. M. SHAW & SON.....PROPRIETORS.
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tilated, and well arranged for pleasure parties and
commercial travelers. This is the only hotel east
of Boston that has an elevator, the weary travel-
er's friend. Rates \$2.50 and \$3.00.

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Ellsworth, Maine.

A. I. SAUNDERS.....PROPRIETOR.

PREBLE HOUSE.

JOHN LINDSEY.....PROPRIETOR.

Portland, Maine.

(Formerly of Fabian House, White Mountains,
N. H.) The House has been thoroughly refitted
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Terms, \$2 and \$2.50 per day.

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Blue Hill, Maine.

HARRY E. FISKE.....PROPRIETOR.

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&c., &c. Prices as low as at any house in New
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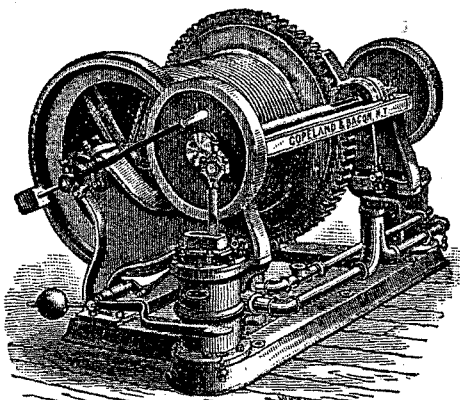
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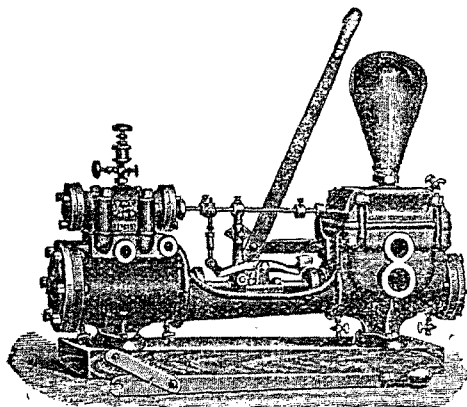
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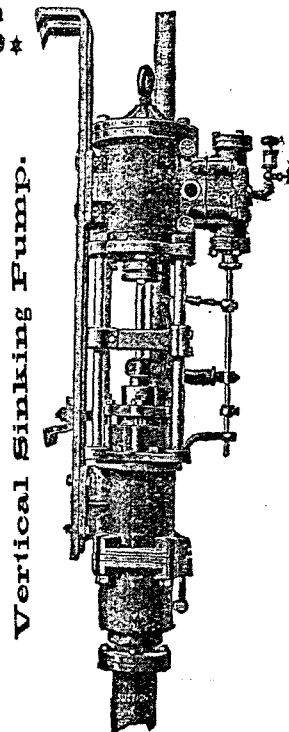
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DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

[Entered as second-class mail matter.]

Vol. I. No. 20.

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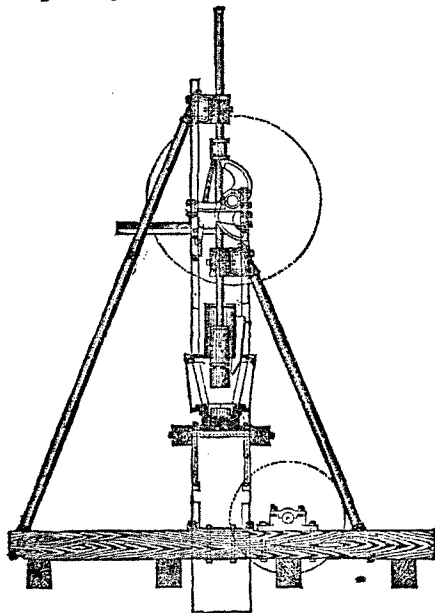
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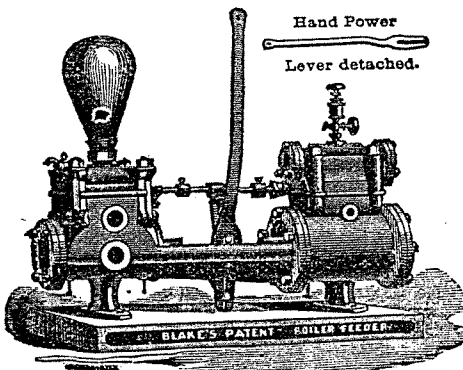
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REFERENCES:
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Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MAY 14, 1880.

WHAT SHALL WE DO WITH OUR ORES?

We invite attention this week to the interesting communications in our columns relating to the treatment of Maine ores. This is a subject of vital importance to the rapidly growing industry of mining and it is high time that it received some attention. It has already been determined that the ores of Maine are rich in the precious metals and that the deposits are apparently inexhaustible; what remains to be ascertained is—are they too refractory to be worked with profit? This we are not willing to believe. Indeed, we already know that much of our copper ore is very easily worked; the only question with regard to that is—may we not by erecting smelting and reduction works within the limits of our own State, save much of the expense of shipment and at the same time create a new and important branch of business which shall furnish employment to many and be remunerative to all concerned?

With regard to the ores of silver, the history of silver-bearing fissure veins the world over and the developments in those of our mines which have attained the greatest depth, warrant the belief that at no great distance from the surface the refractory elements will nearly or quite disappear and that the silver may then be extracted by the simplest and most inexpensive process. But meanwhile the expenses of the mine must be met, and large sums of money are necessary to continue the explorations; consequently some method must be devised to utilize the low grade ores. The moment this is done, capital which is already scanning the field, will flow in unhesitatingly and the success of many good mining properties, which at present are hovering between life and death, is assured.

"N. G."

We have received a copy of the *Cambridge Tribune* of April 23, containing the following which we publish for the benefit of our Ellsworth readers. The officers of this com-

pany, we must say, are supplied with a profuse amount of the very essence of unblushing cheek, or to use a slang term which is perhaps more expressive—"gall."

A party of gentlemen recently made a journey to the Ellsworth Silver Mine, Ellsworth, Maine, to investigate for themselves, and the result was far beyond any anticipations they had formed from what they had read or heard of this already celebrated property. From the account they bring of it there can be no doubt about its being the richest mine yet discovered in the State of Maine, if not in the country. They state that there seems to be no risk in making an investment in the stock of the company at its present price, but on the contrary, with every probability of giving the purchaser a large return.

It will be remembered that after sinking a shaft to the depth of twelve feet the ore averaged from top to bottom over \$51.00 per ton in value, and that the increase in depth increased the richness of the ore most satisfactorily. Now they have reached a depth of seventeen feet, and the assayers give the most astonishing result of \$278.00 per ton as an average of ore taken out at that depth. We only wish our bank account was in such a condition as to take the full amount of treasury stock, for the testimony before us is certainly of a most convincing nature. Talk about bonanzas in the far West, the far East is certainly coming to the front.

The following letter from Samuel B. Krogman, Esq., speaks for itself, and must be assuring to investors desiring a large return:

BOSTON, April 10, 1880.

DEAR SIR: Having visited the mine of the Ellsworth Silver Mining Co., and having personally taken ore, blasted in my presence, from its shaft at a depth of about seventeen feet from the surface, and having had an average specimen of said ore assayed by W. French Smith, one of our State assayers, whose certificate gives the remarkable result of the assay as 244 1-2 ozs. silver per ton, valued at \$278.73, I am prepared to endorse the enterprise and will cheerfully confer with any of my friends or acquaintances who may desire information or wish to invest in its stock, which for the present week will be sold at \$2.50 per share.

Respectfully Yours,
SAMUEL B. KROGMAN.

The following duplicate certificate from W. French Smith, Ph. D., State Assayer of Massachusetts, comes to back up the letter of Mr. Krogman:

To S. B. KROGMAN, President Ellsworth Silver Mining Company: The sample of ore marked "Concentrations" received from you, submitted to me for examination, contains in 2,000 pounds 244.5 oz., troy of silver = @ 1.14 per oz., \$278.73.

W. FRENCH SMITH.

10th April, A. D., 1880.

Stock Gambling.

The mania for stock speculation does not decrease among the many who have a few spare dollars to invest in the lottery of buying and selling certificates which may or may not represent any real value. It is sometimes asked, why not repeal all laws against games of chance, if the multitude are legally permitted to invest their money in schemes where a return depends upon the credulity of the community.

The undue haste to get rich is the most powerful element towards inducing investment in fancy stocks, and just as powerfully contributes toward the support of faro banks. There is an unhealthy excitement attendant upon both these ways of risking ready money. Legitimate dealing in stocks, where the securities of corporations have an undoubted intrinsic worth, is just as honest and creditable a calling as any other. Brokers, who confine themselves to furnishing for customers a safe investment for their securities, and thus afford capital easy facilities to earn a reasonable profit in the

way of dividends, do something for the community in which they carry on their transactions.

It is not that species of stock brokerage which resembles gambling, and cannot be truly distinguished from it. The gambling is done when schemes are floated in which ignorant and unsuspecting people, deluded by false statements of the chance of winning rich prizes—caught by the delusive prospect of doubling or trebling the amount they have at risk—find themselves at last mercilessly entrapped, and perhaps irretrievably ruined. Take the list of fancy stocks that have been “booming” of late, and obtain any reliable broker’s opinion of them, and he will tell you that the whole fabric upon which, perhaps, a continuous and heavy speculation had been reared, was hardly more substantial than moonshine.

Trading upon such a fictitious foundation must be demoralizing from the nature of things. It begets a distaste for ordinary gains, and by employing the available means of people enabled to save a few dollars over their expenses, and ultimately sweeping these sums into the coffers of wealthy operators, prevents them from being of service to legitimate traffic. Would that there were more men in our moneyed institutions like one we heard of the other day. He is at the head of an important corporation. Being approached by the getter-up of a new enterprise to enrich its projectors, with the proposition to take several thousand shares at a very low figure, and the assurance that the stock of the company would be advanced three or four times the cost to him,

not only absolutely declined, but significantly refused to have any financial dealings whatever with the speculator.

This successful “operator” is said to have taken a handsome fortune “out of the street” on this one stock, which he proposes to still further enhance, and perhaps thereby double the sum of his already large profits. When the stock mounts to the highest figure he has set, he will probably unload and leave the market perhaps to recede more violently than it advanced, greatly to the surprise of the ignorant outside public, which will then learn that some things can be done as well as others, and that the glittering “schemes” of interested parties are not gold. If nobody but speculators of abundant means were injured by the placing and manipulations of “fancy” stocks—although the general effect of the transactions would still be deleterious—few mourners would go about the streets respecting the results of such pecuniary ventures. But the people fleeced are those who cannot afford to lose the small sums they heedlessly risk at the top of the tide.

These consist of professional men on small salaries, clerks tempted to embark their savings which represent so much of prudence and self-denial, and mechanics who think they may as well make one of the lucky strikes as their neighbors who are rapidly growing wealthy by fortunate purchases of stock. Stock gambling should be condemned by all who encourage intimate business.—[*Boston Transcript*.]

Personals.

PROF. STEWART has gone to Castine.

THOMAS DALBY, Esq., of Boston, has been visiting Sullivan the present week.

COL. GRANGER, Supt. of the Granger mine at Blue Hill, and wife were in the city over Sunday.

SUPT. SHOENBAR, of the Milton, passed through this city yesterday on his return from a brief visit to Boston.

CAPT. GEO. W. COLLINS, of East Blue Hill, was in town the present week, and reports favorable progress at the mines in that vicinity.

MR. WILFORD, of the Shoener & Allen Mfg. Co., is at Blue Hill superintending the erection of the mill for the Douglass Company.

GEO. D. HOLT, Supt. of the Lawrence mine at Hampden, has gone to Boston for the purpose of purchasing machinery for the company.

MR. JOHN MERRILL, Secretary of the Blue Hill Copper Mining and Smelting Co. was recently presented with an elegant gold watch by MR. B. O. CUTTER, the retiring Superintendent.

CAPT. WM. HARRIS and D. D. BROCKWAY, Esq., mining men from the Lake Superior district, have been visiting the Maine mines during the past week. Mr. Brockway has for a long time been connected with the Phoenix mine, Keweenaw county, Michigan.

MR. F. W. CROSBY, Supt. of the Morancy mine, made us a pleasant call early the present week. Mr. Crosby is a thoroughly experienced mining man and was formerly Supt. of the North Barrier and Cabarrus Gold Mining Companies, and also of the Judd & Crosby Silver Reduction Works at Georgetown, Col.

MR. D. A. COWELL and his wife have arrived at the residence of his father, Rev. D. B. Cowell. He has been, for some years, in the mining business in Colorado, and intends to engage actively in the same business in the Acton mining district, where he is largely interested. We hope their stay in our vicinity will be as long as possible.—[*Great Falls Free Press*.]

Dips, Spurs and Angles.

His suit was made of finest stuff—
His tile was new and bright;
His hair was combed in many a puff,
His watch-guard—what a sight!

“I’ve just returned from Eastern lands,
I’m salt with ocean spume;
I used,” he said, “my head and hands—
I took stock in the boom.

“I left the East, right on the top—
Got out all right, you know;
Left Gotham with a golden crop—
And now I’m going to sow.”

And then he raised upon his toes—
A striking, prosperous sign—
His finger placed beside his nose,
And said, “I sold my mine.”

—[*Exchange*.]

In the stomach of a Pennsylvania cow, recently killed, were found seventeen wrought iron nails. She had cowhide outside and oxide inside.

In Chattanooga, the other day, a boy named Bread was attacked by a pet goat and nearly killed. He probably knows now on which side his Bread is butted.—[*Exchange*.]

The Salvation Army started in on a campaign in this city, yesterday. As they manifest no intention to pray for the salvation of the stock market, the utility of the army is not apparent to the secular mind.—[*San Francisco Stock Report*.]

Jim Anderson, of odorous Louisiana fame, for some time past connected in an editorial capacity with the Eureka Sentinel, is about to start a paper at Ruby Mill, Nevada. He possesses the qualifications for Nevada journalism in an eminent de-

gree, having the reputation of being a bigger liar than Eli Perkins.—[*Stock Report*.

"That the devil does this Maine?" We are in receipt of the MAINE MINING JOURNAL, published at Bangor, in that State—which is, by the way, a very creditable publication, in make-up, etc., from which we learn there are now in existence 97 organized companies in Maine, incorporated for the purpose of Mining—what? —[*Portage Lake Mining Gazette*. We'll show 'em what, shortly.

Senator Barnum of Connecticut, who has just been elected president of the Little Pittsburg, is in a fair way to become the largest mine manager in the country. He is already at the head of several important mining companies, the Bull Domingo being among the number. Mr. Barnum has had extended experience in the management of corporation affairs, and is widely known as an executive officer of great ability.—[*Daily Mining News*.

We learn from the Gold Hill News that there is a plan on foot for working the low grade ores in the upper levels of the Comstock lode, providing the Miners' Union will consent to a reduced rate of wages for men mining in these ores where the levels are cool. If this plan is carried out it will give to the country an additional amount of treasure otherwise lost, besides affording employment to a large number of men and creating an increased demand for supplies and machinery.—[*Economist*.

From the New York *Herald's* account of Edison's electric ore-reduction process, the Nevada newspapers understand that it will extract more gold from the tailings than present processes extract from the Virgin rock. Certainly that is the construction to be put on the *Herald's* statements; it makes that assertion in so many words. We agree with our Nevada contemporaries that if Edison furnished such information to the *Herald* he knows as much about mining and ore-reduction as a mule knows about the fifteen puzzle.—[*San Francisco Stock Report*.

The mining operators are looking ahead for summer quarters. George Roberts will go to the White Mountains. Gov. McCormick has an eye on Arizona. Harry Logan will meander between Newport, Saratoga and Long Branch. William M. Leat will rusticate along the Sound, where fishing is good. Dave Ferris has telegraphed for a cottage at Lever's Nook, on the Hudson. Col. Henry Rosener thinks seriously of summering at Atlantic City, by the sad sea waves. Col. Wm. Shaffer thinks Coney Island good enough. Ned Barnes will join Harry Logan at Newport.—[*Wall Street Daily News*.

Marshall, the discoverer of gold in California, is in his old age, a pensioner on the bounty of the State, which to him more than anything else owes its greatness and prosperity. Comstock, the discoverer of the wonderful lode which bears his name, ended his life in poverty and privation in the wilds of Montana, and not even a simple headboard marks the last resting place of the man whose discovery has added so much to the wealth and luxury of the human race. Colton, the discoverer of the Bobtail lode, in Colorado, which has yielded millions of dollars, is passing the evening of his days on a little ranch on the Platte, where he is barely able to make a living.—[*Exchange*.

A "Californian" wrote to the Chicago *Times* an account of the use of horse snow-shoes in the pioneer days, claiming them to be a Californian invention. An educated person, visiting Chicago, writes to the *Times* the information that horse snow-shoes were used by the Greeks hundreds of years before Christ, and then scolds "Californian" roundly for his assumption. Well, what of it? The Greeks may have copied the idea from the Pioneers. We tire of these slurs at our youthfulness, and propose to set up a new order of things. Xenophon, the Greek, forsooth! Where was he when the water went up to Montgomery street, and whiskey was four bits a glass on American Flat?—[*San Francisco Stock Report*.

The New York *Graphic* gives the following on the report of Prof. Noncomital's report on the Big Goosetherumfoodle mine: "There is undoubtedly a mine here if the ore bodies hold out. The gangue rock is favorable to the existence of ore and the overlapping seams of schistose show an undoubted tendency to productiveness in rock, which may be ore bearing. While I refrain from pronouncing with certainty on the Goosetherumfoodle mine, still I argue that as great expectations regarding the yield of this vein may be maintained as of any ground in the vicinity. The trend of the rock is S. E. and the direction of all the dips and angles show this to be a true lead, and as such liable to rich ore. Above all things the ground should be thoroughly prospected. I would advise the sinking of one hundred shafts ten feet apart through the hardest rock which can be found. If water be encountered it should be pumped out. If the rock prove rich the mine will prove valuable. If it prove very rich the mine will prove very valuable. It should be borne in mind that if it is necessary to sink deep on the vein the lode must be penetrated farther than if not."

The article on slate, where it comes from and how it is worked, which appeared in the *Globe* a few days ago, lacked information on a certain kind of slate, which is now furnished by our liquid reporter: That quality of slate which is best known by a large number of Bostonians is the one which is found in small, detached veins behind bar-room counters. It is usually found enclosed in wooden uprights and requires a great deal of "working" before it can be perfected. Quicksilver or nimble sixpences are not necessary in working this ore, the most useful metal for the purpose of amalgamation being taffy in large chunks and spread thick. This sort of slate has been worked by experienced miners for several months; but the yield generally gives out very suddenly after two weeks' working, and no vacuum dredge has ever yet been found powerful enough to force the yield again. The geological name of this bar slate is "hanging it up," and it bears a very important relation between the honest beer-jerker and the impecunious reporter. Shakespeare appears to have been well posted on this mineral, and it is believed

of the theatre were considerably less than the amount of the execution which the sheriff was holding at the back door: "To be-er or not to be-er; that's the question.—[*Boston Globe*.

DRESSING MAINE ORES.

BY R. A. VARDEN, M. E.,

METALLURGIST FOR THE ACTON CONSOLIDATED S. M. CO.

(1.)

Now that several of the mines in the State of Maine have proved without doubt the existence of large mineral deposits, and in some instances considerable quantities thereof have been brought to the surface, the question arises, what is to be done with the ore now we have it? and should it be shipped to the smelters in its crude state, or be subjected to some preliminary treatment to enrich it and lessen the bulk for transport? A few remarks, though containing nothing new, may be interesting to your numerous readers.

Speaking in general terms, the ores principally mined for in the State are argentiferous galena, grey and yellow copper ores and zinc blende, to the handling of which the subjoined remarks are mainly applicable.

Already stated it is to be determined whether the ores as raised are in a marketable state, or in other words, will the buyers give the same price per unit of metal for low as for high grade ores, after taking into consideration the freight of the greater bulk of unconcentrated ore as compared with the lesser bulk of enriched ore added to the cost of concentration. Copper ores form a good illustration of the difference made in the price. Years ago the Cornish copper mines had almost the monopoly of the trade and it was not to be wondered at that they were eagerly sought after, but now in spite of the large importations of foreign rich ores, (between 40 and 60 per cent.) that are annually made into England, a keen competition for the low grade Cornish ores of perhaps 7 1-2 per cent. is still maintained by the Swansea smelters. The reason is that the gangue matter of this low grade stuff forms an excellent flux for obtaining a clean slag in smelting the rich ores, a circumstance upon which the success of the whole process chiefly depends. By further concentration these ores might be brought to a much higher percentage, but experience has taught the miners that it is not to their interest to do so, although the expense of carriage is heavy and labor cheap.

The only reliable way to arrive at the true market value of the ore is by practical test. Send say 50 tons into the market and be guided by the smelter's opinion after it has passed through the furnace. It is true the assayer will give you the value of the ore, but his figures show only the value of the metal, according to prices publicly quoted, under the supposition that it is already extracted in a metallic state; but on the other hand the smelter's price, or market value of the ore, will be considerably lower as his profit and the so called "returning charges" or cost of the metallurgical operations have to be deducted.

Again the returning charges vary with most ores, according to the other minerals mixed with them, as lime, silica, etc., or other metallic minerals that during the smelting process influence the run of the furnace or the quality of the metal smelted for, as with lead, antimony, zinc, etc. A test of this practical nature will also help one to decide the degree of concentration to which it should be carried with advantage.

Having once decided upon concentrating, great attention must be paid to the most advantageous manner of laying out the works in order to save labor as much as possible. In starting new concerns there should be no hurry about erecting expensive concentrating works, until you are quite certain there is sufficient ore to keep them running. Developing a mine is in most instances a long and tedious affair, and all available money may probably be wanted to place the mine in a position to return regular quantities of ore.

but if large sums are spent on machinery there is no immediate necessity for, the bottom of the shareholders' pockets may be reached before the ore, resulting possibly in your having to abandon the undertaking, while others may take up and work to their own benefit, what you, through lack of funds, have been unable to accomplish. Whereas, by adhering rigidly to underground development and placing the mine in such a position that a sufficient amount of ore is opened up and in sight to warrant a further outlay, little difficulty will be experienced in inducing the shareholders to advance funds for erecting concentrating works, or any other expense that will contribute towards converting the crude stuff into tangible dollars, and surely a possible slight delay will be amply compensated for by the certainty of not wasting money on useless machinery.

One great objection I have to erecting elaborate machinery at an early stage of development, especially in a new district like the State of Maine, is the comparative state of ignorance we are in as to the adaptability of certain machines to our ores, which can be determined by trial only. For this purpose I would advocate erecting small temporary works, at a small expense, capable of treating all the ore likely to be raised from exploring work, sinking shafts, driving drifts, etc., and once being assured of the extent and value of the mineral deposit, the old works can be added to, improved or entirely removed and replaced by others, as the experience of the temporary process shall dictate.

One word in conclusion respecting high concentration. Except where the ore is of a low value and transport high, excessive concentration should be avoided, for the more you wash the stuff the greater will be the loss. People may talk of the small loss of ore in dressing with properly constructed machines and judge the result by the tailings, but forget it is not here the loss occurs, for being perceptible to the eye it can be more easily guarded against, but it is the water that carries off on its surface sufficient valuable stuff to materially affect the percentage saved. By going some hundred yards below the point where the water flows off from any large concentrating works, very respectable assays may be made from the slimy mud deposits in the bed of the river resulting from this cause, to avoid which no thoroughly efficient apparatus has been contrived. Any one may satisfy himself of the truth of this by taking a little powdered galena or yellow copper in a shovel with a little water, and a fine film of ore will be seen floating on the surface and no small difficulty will be experienced in inducing it to sink. Hence the saying, "water will steal ore."

Portland, May, 1880.

Proposed Sampling and Reduction Works at Portland, Me. *Editor Maine Mining Journal:*

The question has several times been agitated of establishing ore reduction works at Portland. In the fall of 1878, a large meeting was held in City Hall to discuss the feasibility of a plan for smelting works and a standing committee was appointed consisting of Hon. J. B. Brown, Hon. Geo. E. B. Jackson, Wm. Atwood, F. L. Bartlett and Gen. S. J. Anderson. Several plots of land near the city were surveyed with an idea to the location of the works, and a Mr. Mason of New York City was to visit England and gather what information might be necessary for the establishment of the works. It was proposed to build works more particularly for the treatment of copper ores. At that time no copper ore was being produced in the State, and but little copper, consequently the supply of ore was expected from the Canadas and New Hampshire.

The project was never carried out, owing principally to the fact that Mr. Mason's partner in business in New York died immediately after the meeting and thus prevented his proposed journey to England. The peculiar adaptability of Portland as a point for the location of reduction works is easily shown. It has one of the finest shipping ports in the

world, it is in the shortest and most direct communication with the western States and the Canadas, and it is the shortest and most direct route to Liverpool and all ports of England. Ores coming from the Canadas, the Provinces, the Coast, New Hampshire, Vermont, or in fact from the West can be shipped to Portland at less expense than to any other large maritime port in short and direct communication with England.

The State of Maine mines ought soon to be in condition to furnish large quantities of ores of gold, silver and copper. Many of these ores cannot be worked here and must be sent to England and Germany. Some of them can be treated here at a great advantage and profit to the mines, and the lack of proper works for the handling of these ores is even now becoming a pertinent and prominent fact and one that demands serious attention from the thousands who are now engaged in mining in the New England States. What is most needed are works that will purchase large and small lots of any ores that may be offered for sale, giving a fair price for the same and paying cash on delivery. Could this be done many of our mines would be able, from the sales of small quantities of ores from time to time to keep themselves in working funds.

Centralization is what is needed. A few small works scattered over the State may be a failure while larger ones at a central point may be a success. The Maine mines to-day stand in a critical light—dividends or sales of ores from some of them must be forthcoming soon in order to establish their permanency and value. It is well known that quite a number of the mines now have ore on hand of considerable value, which were these works to buy it, would render great assistance not only towards future development but in sustaining the confidence of the stockholders.

With a view to the establishment of such works the following plan is proposed: That sampling and reducing works be established at Portland, Me., subject to the control of a regularly organized stock company, consisting of those men most largely interested in Maine mines; the works to be started in a small and not too expensive way with a view to future enlargement; that no experimental or newly devised machinery be used, but such selected as is known to accomplish the work for which it is intended; that skilled and practical labor only be employed. With these conditions fulfilled the success of the works would depend wholly upon the amount of ore that can be secured. The works would essentially consist of: *First,*

SAMPLING AND SALES WORKS,

where all ores too refractory to treat here might be accumulated and sampled by crushing, assaying and otherwise putting in condition for sale. Samples would then be sent abroad for bids and sold to the highest bidder, subject to his order. By thus accumulating the ores and selling to the highest bidder and shipping in large lots, the company would have entire control of the ore and the highest possible price be obtained for it. Many ores are capable of concentration or of being run into coarse matt thereby much reducing the bulk before shipping. Ores could be paid for by the company as fast as received thus giving the mining companies the advantage of quick returns. In addition to the sampling and sales works would be, *Secondly,*

MILLING WORKS,

consisting of stamps and amalgamators for the treatment of free gold and silver ores, including a roasting furnace for chloridizing ores. *Thirdly,*

COPPER AND ACID WORKS,

for the treatment of both low and high grade ores, making the low grade ores into sulphuric acid and cement copper and running the high grade copper ores into coarse matt.

All of the machinery required for the above work could be included in one plant and run altogether at less expense than either one separately. Waste products could be util-

ized and with a variety of ores to treat, less fluxes would be necessary, since one ore is frequently used to flux another. It is not proposed to do fine work or to separate the precious metals at these works but only to produce base bullion and regulus or matt, the same to be then sent abroad to works constructed specially for such purposes. It is believed that the establishment of such works can be made not only profitable to the company but of great advantage to our mines and mining interests.

The only question will be to obtain a sufficiency of ores to keep such works running. And with a view to the erection of such works communications and correspondence are earnestly requested from all those who are interested. It is particularly desirable to ascertain the probable quantity of ore that can be furnished by each mine. If proper encouragement be received, the works will be erected at once. Communications on the subject may be addressed to

FRANK L. BARTLETT, State Assayer,
Portland, Maine.

CORRESPONDENCE.

Treatment of Ores.

Editor Maine Mining Journal:

DEAR SIR—While it is quite definitely settled that there are mines in Maine; that many of these mines are located on true fissure veins, and are practically inexhaustible; that many of these veins are charged with the base and precious metals in paying quantities; and that in no part of our country can the extraction and reduction of ores be carried on as cheaply and advantageously as here; while these are admitted facts there is one point, and a very essential one, too, that is, as yet, to a certain extent, an unsolved problem. I refer to ore reduction.

We have in this State an almost infinite variety of minerals, and their combinations; and it is a matter of vital importance when we come to the question of treatment or reduction, that the special features of our ores should be carefully studied in order that the process adapted shall be the one best fitted for the ore we have in hand. Mining here has but fairly commenced, but the rapidly growing ore dumps all along the great mineral belt of southern Maine, will soon demand works for their reduction. It is already an oft recurring question with many as to what disposition they shall make of their ore.

To aid in rightly answering this question is the object of this article. There are four general methods of reducing metallic ores. By smelting, by amalgamation, by chlorination, and by leaching and precipitation. All of these processes will, without doubt, be required for the successful treatment of our ores and the point to be attained is to adapt the different methods to the various classes of ore that our mines produce. Ores are characterized as smelting if they contain enough of lead, copper, etc., in combination with more or less of the precious metals to make it profitable to smelt the whole down and by means of proper fluxes to separate the gangue, or earthy matters from the metals and leave the latter in the form of a crude alloy called matte. Whether any given ore shall be reduced by smelting or by some other process, is determined not altogether by its character, but in very many instances by its location. Before the introduction of railroads into the great mineral regions of the West, the base metals, lead, copper, zinc, etc., were not only worthless, but a positive detriment to the miner because they made it more difficult to eliminate the gold and silver, the only portions valuable to him. It was then, and is now in some parts of that country, customary to treat ores by amalgamation that are rich in copper and lead—true smelting ores—saving in some cases perhaps \$50 in silver and throwing away as waste matters from \$75 to \$180 per ton in lead, copper and zinc. If we have an ore containing even a small percentage of galena or sulphide of copper, it may be made a good smelting ore by concentration. This is a purely mechanical process and is accomplished by a great variety of devices, all based upon the same general principle that the ores are heavier than the earthy parts or gangue with which they are associated. We may say in general terms that all of the lead and copper ores of this belt should, after concentration, be smelted.

Ores suitable for amalgamation may be properly classed as Free Milling and Refractory. Free Milling ores are such as can be worked raw; that is without roasting. The process is frequently called Raw Amalgamation. Examples of free milling ores are found at White Pine, the Comstock, and among other parts of the world. Gold ores are generally treated as free milling even when quite refractory. This arises from the

fact, that, except in comparatively rare instances, they are of low grade, and will not pay unless reduced in the simplest and cheapest manner.

By refractory ores are meant such as must undergo certain chemical changes effected by heat. All ores containing any considerable amount of galena, iron or copper pyrites, zinc blende, antimony, arsenic, &c., &c., belong under the head of refractory ores. And, if they are to be amalgamated, they must be crushed dry, then roasted and chloridized as preparatory processes, before amalgamation can take place. Now, if we have an ore that is poor in lead and copper, but rich in zinc blende, antimony, arsenic, etc., and that carries silver or gold in paying quantities, the process indicated is the one above described, viz.: roasting, chloridizing, in the case of silver, and amalgamation.

There is another class of ores to which this process is adapted that contain copper in sufficient quantity to warrant its being leached out before the roasted pulp is amalgamated. So far as I have observed we have only a limited amount of ore as yet that will require either the leaching or chlorination methods; and so I will defer a consideration of those processes for the present, and in the next article will give some hints and suggestions on the erection and operation of a dry crushing silver mill.

F. W. CROSBY.

East Sullivan, Me., May 10, 1880.

Trip to Northern Castine and Penobscot.

Mr. Editor:

By invitation of V. Darling, one of the early pioneers of mining in Maine, it was our pleasure last week to visit some of the mines in embryo, situated on the shores of the Bagaduce River. The day was the first in May that could truly be called a "May-day," and the drive along the shores of the Penobscot, through the beautiful village of Orland and past the Island of Verona was thoroughly enjoyable and appreciated by the party.

We arrived at North Castine at about one o'clock, and after taking dinner at the house of Mr. Emerson, walked down to the Bagaduce River, along the shores of which Mr. Darling has bonded some very promising properties.

The Bagaduce is an arm of the sea, terminating in Northern Bay, and for lovely scenery, nothing can be found along the Penobscot, that can surpass the views seen here along these shores.

Near the Brooksville Ferry, on land owned by Geo H. Emerson, are located the North Castine Mining Co's works. A better place for a mine could not be found in this locality, as near by there is a good wharf, so that the ore can be shipped at very little expense, and the main road from Castine to Bucksport is only a few rods distant from the mine, thus affording easy communication by land or by sea. The ledge here crops out boldly into the stream, and for surface mineralization, there is surely a flattering showing. We found six men hard at work, and the shaft down about fifteen feet. At this depth the vein is found to be about six feet wide, dipping nearly perpendicular and running about northeast by southwest. Of course the show at this depth is a great deal better than near the surface. Indeed the bottom of the shaft appears to be one perfect mass of rich ore, consisting of dark fine grained galena with some sulphurets of iron and copper. The gangue rock, being of a flinty nature, is exceedingly hard to work, but the men are making excellent progress. Some of this ore has been assayed by Thomas Cahill and his certificate gives a value of \$10.04 in gold, \$24.20 in lead and \$50.27 in silver; total value, \$84.50. This is very good for surface specimens and we hope that the future developments will meet the expectations of the owners.

From here we rowed across the river to the Brooksville shore and landed at the Dodge place, where we saw a vein of quartz on the shore, over twenty feet in width, and showing galena, copper and iron. The first blast made while we were there showed well in the various metals. Mr. Darling and Mr. Barnes, the owners, propose to make a cut across this vein up from the shore, and thoroughly develop the property, which has every indication of being a valuable one. Darkness now coming on we wended our way towards the farm house where we spent a very pleasant evening, and on our return the next day we called at the Penobscot mine in Penobscot, situated one-half mile from the stage road between Bucksport and Blue Hill and six miles from the latter place. The owners are chiefly Boston men, but the Secretary and Superintendent resides at Blue Hill and owns a small cottage at the mine and it was our good fortune to find him here. Our first impression on looking round, was one of surprise at finding here in a mining region everything so neat and tasty. The little cottage surrounded with beautiful walks lined with large quartz crystals, the croquet lawn bordered with these crystal rocks and the surroundings generally give the place an appearance of age, and it does seem as though as much had been done here towards

making a home in the seven weeks that they have been working as is accomplished on some places in seven years. Indeed, why should it be otherwise, when we learn that the Supt., the Rev. Samuel Annear, is a man of culture, intelligence and refinement. He hath truly made the wilderness blossom as the rose, and changed the solitude of the forest to a scene of activity, wealth and beauty. His cottage may be truly called a little "crystal palace," for the interior as well as the exterior is adorned with various colored crystals taken from the surface along the vein.

Now for the mine.—This is as unique in its character as are the surroundings. The quartz lode which is of great width runs the whole length of the property, comprising about seventy acres. The hanging wall is slate and can be distinctly traced alongside the quartz. Next the slate which is 30 feet in width, comes a ledge totally different in character, being mica schist, forty feet wide; next to this is the solid granite. The dip of the vein is nearly perpendicular and its trend east and west. The shaft is being sunk on the foot wall and has already attained the depth of 36 feet. The vein is proved to be constantly widening and the precious metal, silver, which hardly existed at the surface is now proved by assay to be present, and this being a true fissure lode of great extent, the silver will without doubt increase in quantity as depth is attained, and it is the opinion of the Superintendent that this will be a valuable property. But the place must be seen to be appreciated, and we must here state that Mr. Annear is always pleased to receive friends interested in minerals and mining and will with pleasure show visitors the wonderful natural formations of the place. And we will say that when they have once made him a visit they will want to come again. B. M.

Bangor, May 10, 1880.

Castine Copper and Silver Mining Company.

Editor Maine Mining Journal:

A company called the Castine Copper and Silver Mining Company has been recently formed at this place. The officers are, President, J. Henry Sylvester, M. D., of New York; Treasurer, Capt. John Gardner, Castine; Secretary, W. G. Sargent; Directors, Wm. H. Sargent, Castine, Hon. Moses Webster, E. P. Walker, Esq., of Vinalhaven, John N. Gardner, H. P. Sargent and John F. Rea, Castine.

The mine is located on Castine Head, the outcrop commencing at high water mark and running northeasterly into the bank, and is admirably situated for working. The vein is four feet wide and the ore copper, silver and galena with some gold. The mine was opened in April, 1879, and the assays made by Prof. Bartlett last year from ore ten feet below the surface gave 16 oz. silver and 6 pwts. gold. The assays for copper by Messrs. Pope, Cole & Co. of Baltimore, Md., gave 6 5-10 per cent. Assays this year by State Assayer Woodward from ore 25 feet below the surface give 35 oz. silver. This is a first-class company and the officers are well known and sterling business men. Capital stock \$500,000, par value \$5. 28,000 shares have been put into the treasury for a working capital, 2,000 shares of which have already been subscribed for, and 2,000 more placed upon the market at 40 cents per share. The company control the mineral right in twenty acres of land and have three good veins.

H. P. S.

Castine, Me., May 10, 1880.

The Possibilities of Mining.

Decry mining as you may, there is no other industry through which poor men can be so suddenly raised to affluence, and none which offer so many opportunities to men of energy and enterprise, as witness the following story:

TUCSON (A. T.), March 15.—The Shefflin Brothers (Edward and Arthur) to-day sold their interest in the Tombstone Mill and Mining Company, which includes their interest in the Toughnut, Defiance, Goodenough and Westside mines, to the Corbin Brothers, the Diston party of Philadelphia, Penn., and Messrs. Simmons and Squire of Boston, Mass., on a basis of \$2,000,000 for the whole property. This is the largest and most important sale ever consummated in mining property in Arizona. The Shefflin brothers discovered and located these mines about two years ago and at that time they were poor prospectors, without money or influence.

If we are not mistaken, one of the brothers was less than five years ago a woodchopper in the mountains of Eastern Nevada, earning about \$40 per month and board. To-day he is a millionaire. In any other country but the Pacific Coast region these brothers would never have had opportunities bet-

ter than to struggle along at hard work, and perhaps, if economical and industrious, making little homes for themselves. The case of these brothers is but one of the many that have occurred on the Pacific coast, where poor men have suddenly become rich by a lucky mining strike.—[*San Francisco Stock Report*.]

Making Reputations With a Vengeance.

The young Mining Departments of the great dailies are impatient to make a reputation for smashing something—to become terrible, as it were. Here is one that prints correspondence which annihilates a company per line, and such companies as the North Bloomfield and Spring Valley at that, and hydraulic mining in general; still the gravel mines of California continue to yield twelve to fifteen millions per annum, and have averaged that for twenty years. This correspondence admitted into the financial columns of the Tribune is calculated to do serious injury; but such dangers are incident to building a mining market on "news." Some irresponsible correspondent may come along and demolish months of reports and telegrams from experts and superintendents, with one fell swoop of his pencil.—[*Bullion*.]

Mining Nomenclature.

Before us is a map of Columbus district. A list of the names of the mines represented on it makes a curious collection. Commencing at the eastern end of the district there is the biblical series—Genesis, Exodus, Leviticus and Deuteronomy. Going west, and leaving out the commonplace names, we come to the Tarantula, which lies alongside the Butterfly, then the Bronco, the Hard Metal, the Tinker series, the Old Boy, the Hardscrabble, the Deadeye, then, one adjoining the other, Bottom Dollar, Pine Street, Java, Patagonia, Silver Vault and Mercedes, Porphyry, Mormon and Casino in juxtaposition, Bobtail, Mirage, London and Vienna side by side. Below Casino is Pedro. There is Dublin Chief and the Husky, the Salivator and the Wayup, the O. K., the Piute Maid, the Czar, the Christmas, Silver Dollar, Old Timer, Bangor, Portia, Alixie, Side Issue, Palm Flush and Old Pat. Between the Bob Ingersoll and the Tom Paine there is the Small Hope. There are the Mountain Girl, Eastern Belle, Black Warrior, Red Dog, General Jackson, Lightning, Shellback, Desert Queen, General Grant, Old Tom, Silver Queen and Virginus all mixed up in a bunch. The Commodore is suspiciously close to the Southern Belle, and the Admiral sidles up to her southern side. The Zulu is there, the Happy Jack, the Palace, the Jim and John, the Bulldozer, the Faith, the Wedge, the Telephone, the Lucky, the Government, the Hard Money series, the Paper Money, the Legal Tender, Euchre, Sagebrush, Maid of Athens, Whale and Scorpion, the Old Nick, Bismarck, Pinafore, Double Eagle and the Shoemaker.—[*Stock Report*.]

A Phenomenon.

In a conversation with an old miner recently, among other topics that of earthquakes was taken up, and the fact that those convulsions of nature were never felt underground, and various other views and facts concerning them were advanced. Among other things he remarked that on the occasion of that last shake at Secret Canyon he was at work in a mine on Prospect Mountain, and although the tremor was plainly felt by his partners on the surface, at a depth of eighty feet he noticed nothing unusual. He then said that through an experience of fifteen years underground he had observed one very peculiar fact, that between the hours of 12 and 2 o'clock at night, if there was a loose stone or bit of earth in the mine it was sure fall. Said he: "About this time it seems that everything begins to stir, and immediately after 12, although the mine has been as still as the tomb before, you will hear little particles of earth and rock come tumbling down, and if there is a caving piece of ground in the mine it is sure to give away." This is a

strange phenomenon that scientists and philosophers have failed to explain to us, but our mind vouches for its truth on a basis of many years' experience.—[*Eureka (Nev.) Leader*, April 17th.

The Relations of Denver Newspapers to the Mines.

It is rapidly coming to pass that a glowing account in any of the Denver newspapers of a mine is enough of itself to excite a suspicion that it is a fraud. In bringing about this result the *Nevos* does not claim to have been better or worse than its contemporaries.

The subject is one of extreme difficulty. We can stoutly aver that we have not knowingly given the use of our columns to the puffery of frauds, but still we are satisfied that many worthless concerns have been seductively described by our correspondents.

No man who complains at this can tell us how to prevent it. The people demand all possible mining news. We have no way of testing the accuracy of the statements of our correspondents before publishing them. It is impossible for us to assume the expense of guarding the interests of mining speculators, and to hire an expert to examine every mine before publishing the important rumors in circulation concerning it. Our correspondents are almost always interested parties. It is impossible for it to be otherwise. The extracts we publish from our country exchanges are likewise inspired by, or written upon information furnished by the mine owners, who will obviously exaggerate the merits of their discoveries from a variety of motives.

We may suspect that a mine, of which a dazzling account comes to us for publication, is a fraud. But we do not know it. Our suspicion is based on nothing except the fact that we are asked to make space for its puff. On this alone we are not justified in incurring a libel suit by casting a cloud on the value of a man's property simply through fear that some unfledged goose may be led into paying more for it than it is worth. Selling a mine with some merit for more than its real value is called swindling, but it is not. It is the pith and cream of the mining business. It is what the real estate men, the dry goods merchants and some of the vendors of prayer books, and the gospel itself, are doing every day.

The Monte Christo mine is a case in point. It is worth something. Under certain conditions it may be worth a good deal. For all we know it may be very valuable even now. The papers which so glibly pronounce it a fraud might be solely puzzled to prove that libelous assertion. The probabilities are that its owners are simply seeking, by rosy coloring, to sell it for more than it is worth, precisely as other men are seeking to sell a six dollar bible for ten dollars by lying robustly about the durability of its binding.

Every reader of mining news in this journal is as capable of judging of its truthfulness as we are, and cannot blame us if he is misled.—[*Denver News*.

LODES, LEADS AND VEINS.

HARRINGTON.—Work was commenced last Tuesday in the old shaft, and will be vigorously pushed.

FRANKLIN.—The shaft has reached a depth of 17 feet, and is making a magnificent showing.

FRANKLIN EXTENSION.—This property is looking wonderfully well, showing at the surface a considerable quantity of gray copper, and also native and ruby silver. Two other veins have been discovered which will be cut from the central shaft when a sufficient depth is reached. A contract has been made with Capt. Isaac Hamilton to sink a double compartment shaft, 11x7 feet, to a depth of 100 feet. The property has recently been examined by A. H. Simonton of Portland, who it is understood has made a highly favorable report which will soon be published.

EGYPT.—The shaft is down about 23 feet. The prospect is very promising.

WEST BAY.—The shaft has been timbered to a depth of 17 feet, the vein is rapidly widening and some fine ore is being taken out. The shaft-house is nearly completed. Work upon this as well as the Gouldsboro shaft-house, has been delayed somewhat on account of having to wait for lumber.

GOULDSBORO.—This mine continues to show the usual amount of fine ore. Work is progressing rapidly in the tunnel.

Sullivan.

The following items are from the Sullivan *Bulletin*:

BEACON HILL.—New shaft house is nearly completed. Sinking shaft will be resumed by Monday next.

MILLBROOK.—Present depth of shaft 89 feet. Bottom in easier blasting ground. Machinery running satisfactorily.

WAUKEAG.—Contractors Talbot Butler and Jesse White are making good progress running the cross-cut, notwithstanding the hard blasting rock they have met with lately.

PINE TREE.—The drift from 125 foot level is still advancing, showing very flattering indications. Vein is fully 6 feet wide. Ore is rapidly coming in the whole face of the drift.

CONNERS.—The shaft is down 26 feet and has disclosed two perfect walls confining a quartz vein heavily charged with sulphurets of iron, copper and argentiferous galena, and is an excellent prospect.

SULLIVAN FALLS.—Depth attained to date, 36 feet, and the further sinking of shaft is progressing at the usual rate. The bottom makes an excellent showing of mineral similar to that produced from the Sullivan mine.

MILTON.—Ever since the advent of good, or what is called decently good weather, in this part of Maine, the Milton works have been favored with more visitors than at any time heretofore. Professional mining men of large practical experience in mining matters, who have visited various countries where mining is conducted on a large scale, pronounce the Milton works, without hesitation, the best and most complete of its kind that ever came under their observation. Grand preparations are being made to open the shaft on an extensive scale. The new 75 horse-power boiler, which arrived per schooner Harvard H. Hovey, about a week ago, is in place and nearly ready for use, and will be connected with the first boiler on Monday morning next. Everything is in readiness to set up the large Burleigh compressor and air tank, which is expected to arrive by schooner in a day or two. Work in both shafts is progressing satisfactorily. Shaft No. 1 has attained a depth of 130 feet; shaft No. 2 is down 115 feet. When the compressor and the Burleigh drills are started, it will not take long to run both shafts down to the required depth of 150 feet, when regular stations will be cut and drifts started for the ore heretofore encountered. The Milton will soon fall into line as a regular bullion producer. It is a good property to own.

SULLIVAN.—The annual meeting of the stockholders of the Sullivan Silver Mining Company was held yesterday at Kittery, Me., 31,270 shares being represented, and Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden and Charles F. Farrington were elected directors. The by-laws were amended by fixing the second Wednesday in July as the time for future annual meetings, and the place Sullivan. The treasurer presented his report, giving in detail his receipts and expenditures to May 1, 1880, showing the amount of cash on hand at that date to be \$17,502.10, and that there were 6295 shares of stock in the treasury. Of the amount raised by the sale of 2000 shares March 17, \$10,497.90 has since been expended upon new machinery for the mill. There were no liabilities except for April pay-roll. He also stated that the machinery for the mill was under contract for delivery May 9, and the work of preparing mill foundation and building was progressing rapidly.—[*Boston Advertiser*.

The *Bulletin* says: Contractors are making good progress in east and west drifts, also in winze, which will connect the 60 and 130 foot levels at a point where the cross-cutting to shaft No. 2 will be made. Work in the east drift discloses rich ore, showing native silver. In the winze a streak of very high grade ore of sulphurets of silver has been encountered, which looks very promising and bids fair to open up into an extensive body. Shaft No. 2 is going down at a good rate. The Johnson drill is doing first-class work, when run by expert workmen. Lehman Springer and force of carpenters are building a commodious blacksmith shop. The hoisting works are now being painted by Capt. James Urann, which adds greatly to the appearance of the works. Contractor Charles A. Moore, who has a force of masons employed fulfilling various contracts at the principal mining works in this district and other places, is now building the foundation for the mill, the machinery for which is expected to arrive shortly.

MORANCY.—Shaft down 40 feet, timbered for 20 feet. A recent assay by Prof. Sharples resulted as follows: Silver \$19.04; copper about \$15; total value per ton \$34.04.

BOSS OF THE BAY.—A remarkably rich vein of copper sulphurets has recently been opened on the farm of Capt. Doane at Waukeag Point, about 2 1-2 miles from the village of Sullivan. The property has been purchased by Col. J. Cary French who proposes to form a stock company to develop it. An assay of the surface ore made by Thomas Cahill of the Comstock assay office in this city showed 34 5-10 per cent copper to the ton of ore.

McFARLAND.—Work is progressing favorably. The shaft is down forty feet; have ten or fifteen tons of good milling ore on the dump. Are grading for a new shaft house 24x36 feet, whim house 24x25 feet. Castings for whim have arrived and will be in running order in a few days, when a night shift will be added to the present force, and work pushed forward as fast as possible.—[*Bulletin*.]

LITTLE SUE.—Mr. Gray, who has worked in the Blue Hill mine for the past three years, has been secured as a foreman on the Little Sue. Shaft No. 3 was started last week 200 feet from shaft No. 1 on the vein. At 5 feet depth an 18 inch vein of quartz, similar to that in No. 1, was struck, showing sulphurets of copper and iron. Another prospecting shaft will be started soon, 250 feet from No. 3. It is the design to thoroughly prospect the vein before locating the main shaft.—[*Bulletin*.]

Blue Hill.

DOUGLASS.—The Douglass continues to take large quantities of splendid ore from the drift at the 95 foot level, which is now 136 feet long and 18 feet wide. Work is progressing rapidly on the new mill and it will probably be running by the first of July. Sixty men are now employed by the company.

CITY OF BOSTON.—Shaft down 50 feet; will sink 25 feet further and drift north to the vein; 20 men employed.

BLUE HILL.—Shaft No. 1 down 90 feet, drift in 60 feet just cutting the vein. Mill running as usual. Capt. Moyle, the new Superintendent, arrived Saturday and took charge of the work on Monday.

TWIN-LEAD.—Shaft down 95 feet. Drifting has commenced and work is progressing rapidly.

YOUNG HECLA.—Shaft down 70 feet; will drift at 100 feet; 12 men employed. Very handsome silver ore is being taken from vein which has widened from one inch to five inches.

DIRIGO.—A cross-cut has been made disclosing the vein, showing some very handsome ore.

TRIO.—A new shaft is soon to be started on one of the copper veins which extend across the property. Supt. Smith is at present in Bangor, suffering from the effects of a severe cold and immediately upon his return, developments will be rapidly

pushed. The affairs of the company are in a flourishing condition.

GRANGER.—The shaft is down 18 feet and is being thoroughly cribbed up. A night shift is to be at once put on.

EAST BLUE HILL.—Shaft is down 34 feet and making good progress. The vein has widened to two feet, and is showing very handsome galena.

Acton.

ACTON CONSOLIDATED.—Work upon the four Actons which have been merged into one is not progressing as rapidly as could be wished. The public have been given to understand—through the newspapers—that the consolidation business had been perfected, that matters had been arranged to the satisfaction of all concerned and that Messrs. Varden and Dickson who arrived some weeks since, would immediately assume charge of the works. Such does not seem to have been the case, and the only operations which are being carried on are in the tunnel on what was formerly the Boston Acton property, and at the old Acton, where a few carpenters are at work making several hand jigs for concentrating purposes, and other necessary improvements. Probably the officers of the company know what they are about, and there are undoubtedly good reasons for the present delay, but the stockholders and the public generally are impatient, and it is earnestly hoped that such splendid properties as these may not, from whatever cause, be allowed to remain inactive for any great length of time. There has been considerable difficulty in securing skilled workmen, which may in some measure account for the delay. The tunnel has been driven into the hill to a distance of 115 feet, and from the character of the rock, is thought to be in close proximity to the easterly vein which it is intended to cut.

DIRIGO.—Progress at this valuable mine has also been rather slow and tedious. The shaft is down 55 feet vertically with an incline thirty-five feet deep. Work is discontinued in the incline, and the force are pushing the straight shaft with the intention of tapping the vein at a greater depth. There are rumors of a change in the board of officers.

SILVER WAVE.—It will be remembered that some time since we spoke of this property as one of the most valuable on the whole lode. Further developments go far toward proving our assertion. Mr. Cowell, the original owner, has recently returned from Leadville, where he has been engaged in mining operations for several years, and proposes to superintend the development of this promising property in person. The working shaft has reached a depth of about fifteen feet and shows a vein the whole width of the shaft splendidly mineralized. A large amount of ore is on the dump, and about half a ton of dressed ore, almost entirely free from rock, is awaiting shipment for experimental purposes. The property comprises 800 feet on the several veins. Mr. E. E. Cowell is foreman.

BULLION.—Everything about the Bullion indicates the careful management of an experienced miner, and such is Mr. J. W. Douglass, the Supt., who has been for many years connected with some of the most prominent mines of the Eureka district, Nevada. The buildings, machinery, shaft timbering and everything connected with the establishment have a substantial appearance and look as if they were intended for business. The shaft is down 65 feet, timbered in three compartments, one each for ladders, buckets and pumps. A new and tasty building has recently been erected for the Supt's office. The Bradford concentrating mill will soon be on the ground, and when in working order must give a new impetus to the work upon all the properties along the Acton lode. Supt. Douglass has found much difficulty in securing practical workmen, and progress has necessarily been somewhat slower than he anticipated, but on the whole one can but be well pleased with the present condition of the mine.

LEBANON ACTON.—The Lebanon Acton shaft has reached a depth of 45 feet, and is being pushed rapidly. A substantial shaft-house contains suitable steam machinery, and the whole is under the supervision of Mr. Gardner Floyd & Son. Numerous quartz stringers have been encountered and the bottom of the shaft is at present extensively mineralized with sulphurets of iron.

YORK COUNTY.—The second lot below the Lebanon Acton is owned by a company recently incorporated, with John C. Alden, Esq., of Boston, as President, and known as the York County Silver Mining Co. A crew of men have been engaged cross-cutting, and the location for the shaft having been decided upon, work will immediately commence.

MAINE ACTON.—A shaft has been started in the cross-cut, and is now down about 14 feet. Several quartz stringers have been cut through, some of which contain considerable mineral.

MINERAL HILL.—The shaft is down 65 feet, and a rich streak of copper sulphurets has been struck, assaying according to Prof. Bartlett, 30 per cent copper.

SHELburn.—The Shelburn Mining Co. was recently organized at Portland with a capital of \$500,000 divided into 100,000 shares, par value \$5, and the following list of officers: President, Hon. L. D. M. Sweat; Treasurer, Geo. C. Frye; Secretary, D. W. Hobbs; Directors, Geo. C. Frye, Chas. S. Morrill, M. S. Gibson, Chas. A. Dyer, Capt. Chas. H. Chase, Wm. H. Pennell, of Portland; L. R. Wiggin, Farmington, N. H. The mine is at Shelburn, Coos Co., N. H., and was opened years ago by New York parties, but was abandoned on account of lack of facilities for transportation. Now, however, the G. T. R. R. passes within a mile of the property, and the reports of numerous geologists and experts warrant the company in believing that they have a most valuable property.

Nuggets.

Sam'l Annear has leased a promising property in Brooksville.

The air tank and compressor for the Milton has arrived and will soon be in position.

A rich discovery of copper is reported on the farm of Capt. Tapley, at Brooksville. Mr. S. B. Smith is one of the parties interested.

At Isle au Haut, the Gross Silver and Copper Mining Company have a shaft down about 10 feet, and (report says) are taking out some handsome ore.

Morrell, of the Gardiner Home Journal, scoffs at the idea of gold mines in our State, and generously offers a dollar an ounce for all the gold found in Maine mines.

The excursion to Blue Hill by steamer City of Bangor, which left this city on Tuesday last and returned Wednesday was highly enjoyed by quite a large party. It is a delightful trip.

N. P. Pendleton, Esq., of Blue Hill, has discovered a promising vein of copper, from which assays have been made running from 13 to 30 per cent, on Cape Rozier in the town of Brooksville.

The new west wing of the Copper and Gold Exchange Hotel at Blue Hill will be commenced next week. It is to be 40x33 feet in size, and will contain dining room, ladies' parlor, office and sixteen sleeping apartments.

The Lake Superior Mining Gazette of a recent date says that there is a sharp competition between the manipulators of the mines in Bodie, Cal., Tuscarora, Nev., and Blue Hill, Me., as to which can tell the biggest lies.

Parris G. Merrill, John A. Stevens, Freeman McIntire, Geo. Alby and three other gentlemen whose names have not been learned will at once erect dwelling houses for themselves on one of the streets in the village of Blue Hill.

It is reported that arrangements have been made for a semi-

weekly paper at Bar Harbor during the summer season. It is to be conducted by Dr. Gilman Colby of Cambridge, Mass., and will be similar in style to the Saratoga papers.

We are sorry to learn from a Boston gentleman who has just visited the Ellsworth mine, that his surprise and disappointment at finding such a bare-faced fraud have knocked his enthusiasm with regard to the Maine mines completely out of him.

Robt. J. Burdette, of the Burlington Hawkeye, together with his wife, child and sister-in-law, will spend the summer in Rockland, having engaged board with the Misses Stackpole. Those who had the pleasure of meeting Mr. Burdette when he lectured here a year ago will be glad to learn that he is coming to live with us and learn our ways.—[*Courier*.]

A Stock and Mining Exchange has been opened at the store of M. F. Jackson. Its purpose is buying, selling and dealing in Stocks of the various reliable mines of Maine. They have some fine samples of copper and silver ore obtained in various parts of the Island and we hope soon to hear the sound of the miner's pick in our midst.—[*Eastport Sentinel*.]

About forty years ago a company prospected for coal on the O. Hill land on the north side of the Whitneyville road, less than one mile from Machias. "Coal cap" was taken off and signs of coal deposits were quite apparent. Some attempts have been made since to sink a shaft but not enough done to arrive at any satisfactory conclusion.—[*Machias Union*.]

Capt. J. W. Bennett, of New York, is at the Bangor House, with some magnificent specimens of copper ore from the Guilford mine in Piscataquis county. Capt. Bennett, who is an old prospector and experienced miner has bonded the property and proposes to form a company to operate the same. The mineral belt comprises a large number of veins, all of which show mineral to a surprising extent. We shall refer to this hereafter.

The mining fever continues unabated in Lewiston. Messrs Ricker & Spaulding, mining brokers, report large sales of stocks at good prices. Many experienced miners have caught the fever. One man of sound judgment and five years' experience in the mines of California told a Gazette reporter the other day, that many specimens of gold and silver ore had been brought to him from the Maine veins which show as well as the average California ore.—[*Gazette*.]

A mine is being opened on L. K. Bryant's farm in Dover not far from the Gariand line, from which the owners expect rich results. In Corinna a new mine has been opened, which assays would indicate to be very rich. The larger portion of it is owned by Messrs. Wood and Hagarty of Corinna; a part of it, however, is in the hands of prominent Bangor men. We hear that there is considerable excitement over the developments that have been made.—[*Newport Times*.]

A company has been formed in Portland under the name of the Kronberg Mineral association for the purpose of bonding, buying and selling mineral lands. The capital stock is \$40,000 divided into eighty \$500 shares. The officers are as follows: President, Sewall C. Strout; Treasurer, C. D. B. Fisk; Secretary, Clarence W. Hobbs; Directors, S. C. Strout, C. D. B. Fisk, Dr. Henry Morrill of Portland, Stephen Jennings, Bangor, William Kronberg, New York, Geo. H. Shattuck, Newburyport, Lewis R. Wiggin, Farmington, N. H.

Two new mining companies have been organized in Lewiston to operate the lode in Woodstock, the Tucker Woodstock and Harris Woodstock. The following are the officers: Tucker—President, S. W. Cook; Secretary, L. H. Hutchinson; Treasurer, Wm. Small, Jr.; Directors, S. W. Cook, L. H. Hutchinson, W. Small, Jr., O. R. Small. Harris—President, E. F. Packard; Secretary, John B. Cotton; Treasurer, Wm. Small, Jr.; Directors, E. F. Packard, John B. Cotton, Wm. Small, Jr., E. Gile. A company has been organized at Norway to work a vein in the same town.—[*Boston Post*.]

New Companies.

Name of Company.	Location.	Date.	Capital.
Union Mining Co.,	Bryant's Pond,	April 29,	\$ 500,000
Portland Deer Isle Silver Mining Co.	Portland,	April 30,	500,000
Lamoine Copper Mining Co.,	Portland,	May 1,	500,000
Little Sue Mining Co.,	Ellsworth,	May 1,	500,000
Atlantic Silver Mining Co.,	Ellsworth,	May 1,	500,000

The English Metal Market.

—REPORTED BY F. L. BARTLETT.

Metal market, London, for week ending Apr. 23, 1880.—The copper market has shown a steady decline closing at 67 £. for ingot. Some lots have been sold as low as 61 £ 5s. It is thought that the quotations will not run any lower for the present. Lead remains firm and in good demand at 17 £. for pig. Zinc is dull and prices show a tendency to go still lower, last quotations are 21 £. for English spelter. Nickel is quoted at 15 £ per cwt., 10 per cent. nickel ore 20 £ per ton.

SALES OF COPPER ORE.

At Truro, 2110 tons copper pyrites sold for 3 £ 17s. 6d. per ton. Average yield of copper was 6 1/2 per cent. At Swansea, 1335 tons pyrites sold for 5 £ 15s. 4d., average per cent. 9. 82 tons Betts Cove ore 7 1/2 per cent. sold for 3 £ 3s. 6d. 100 tons Foxdale lead ore sold for 12 £ 12s. 6d. 100 tons zinc blende sold for 3 £ 10s., percentage 60.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MAY 12, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Astoria	...	...	...	...	...	...	...	...	...	...	...	...
Atlantic L. S.	19	...	17	...	19	17	...	...	...	...	...	1 1/2
Alouez	...	...	...	...	12	10	14	...	14	14	...	16
B. Antimony	29	24 1/2	29	...	30	...	30	...	...	...	...	18
Blue Hill Copper	5	6 1/2	5	5 1/2	5	...	5	6	...	...	...	...
Calumet & Hecla	233	234	231	...	232	...	232	230	...	...	230	...
Central	...	...	...	...	...	...	...	...	...	...	...	...
Copper Falls	7	9	7	9	...	10	...	7	7	8	...	7
Douglas	...	...	...	...	...	...	...	...	...	...	...	...
Duncan Silver	2 1/2	2 1/2	...	...	...	...	...	2	...	2	2 1/2	...
Franklin	...	15	18 1/2	14	...	14	10	13	12 1/2	13	12 1/2	13
Harshaw	115 1/2	16	...	16 1/2	19	16	...	16 1/2	17	16 1/2	17 1/2	...
Huron	4 1/2	...	5	5 1/2	...	4 1/2	...	4	4	4	...	4
Mesnard	1 1/2	2	1 1/2	2	1 1/2	2	...	1 1/2	1 1/2	1 1/2	...	1
National	...	2	...	2	...	2	...	1 1/2	1 1/2	1 1/2	...	...
Osceola	36 1/2	37 1/2	...	30	33	30	38	31	...	...	...	...
Pewabic (new stock)	16	19	17	...	17	19	...	13	...	...	...	14
Phoenix	...	...	...	...	...	...	...	...	...	...	...	...
Quincy	25	...	24	25	...	23	23 1/2	22 1/2	...	25	...	...
Ridge	4 1/2	...	3 1/2	4	...	3 1/2	4	4	...	4	...	...
Silver Islet	...	15	18	16 1/2	18	16 1/2	18	16	17	14	...	...
Star	1 1/2	2	1 1/2	2	1 1/2	2	...	2	1	2	...	...
Sullivan	...	9	...	...	...	...	5	...	5	5	...	8
Waukeag	...	4 1/2	...	4	...	4	...	...	...	...	...	...

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MAY 12, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Action	10	...	10	...	10	...	10	...	10	...	10	...
Ashley	...	1 75	...	1 75	...	1 75	...	1 75	...	1 75	...	...
Ammonoosuc	...	1 60	...	1 60	...	1 60	...	1 60	...	1 60	...	...
Atlantic	...	1 25	...	1 25	...	1 25	...	1 25	...	1 25	...	...
Boston Action	...	1 00	...	1 00	...	1 00	...	1 00	...	1 00	...	...
Bisbee	...	1 00	...	1 00	...	1 00	...	1 00	...	1 00	...	...
Blue Hill	...	7 75	...	7 75	...	7 75	...	7 75	...	7 75	...	...
Con Hampden	...	1 00	...	1 00	...	1 00	...	1 00	...	1 00	...	...
Continental	...	1 00	...	1 00	...	1 00	...	1 00	...	1 00	...	...
Cherryfield	...	1 50	...	1 50	...	1 50	...	1 50	...	1 50	...	...
Danville	...	1 50	...	1 50	...	1 50	...	1 50	...	1 50	...	...
Deer Isle	...	4 50	...	4 50	...	4 50	...	4 50	...	4 50	...	...
Douglas	...	4 50	...	4 50	...	4 50	...	4 50	...	4 50	...	...
Forest City	...	65	...	65	...	65	...	65	...	65	...	...
Fort Knox	...	7	...	7	...	7	...	7	...	7	...	...
Gouldsborough	...	3 00	...	3 00	...	3 00	...	3 00	...	3 00	...	...
Grant	...	2 25	...	2 25	...	2 25	...	2 25	...	2 25	...	...
Hartington	...	2 25	...	2 25	...	2 25	...	2 25	...	2 25	...	...
Horne	...	1 50	...	1 50	...	1 50	...	1 50	...	1 50	...	...
Miner	...	3 00	...	3 00	...	3 00	...	3 00	...	3 00	...	...
Mineral Hill	...	30	...	30	...	30	...	30	...	30	...	...
Norumbega	...	75	...	75	...	75	...	75	...	75	...	...
Oxley Head	...	10	...	10	...	10	...	10	...	10	...	...
Pettit Mountain	...	1 00	...	1 00	...	1 00	...	1 00	...	1 00	...	...
Robert Bennett	...	2 25	...	2 25	...	2 25	...	2 25	...	2 25	...	...
St. Lawrence	...	6	...	6	...	6	...	6	...	6	...	...
St. Lawrence	...	2 25	...	2 25	...	2 25	...	2 25	...	2 25	...	...
Silver	...	10 00	...	10 00	...	10 00	...	10 00	...	10 00	...	...
Silver Lead	...	3 00	...	3 00	...	3 00	...	3 00	...	3 00	...	...
Waukeag	...	5 00	...	5 00	...	5 00	...	5 00	...	5 00	...	...
Young Hecla	...	1 00	...	1 00	...	1 00	...	1 00	...	1 00	...	...

The stock market shows little real improvement. It is thought however that a healthier tone prevails.

HENRY McLAUGHLIN, Storage and Commission Warehouse,

FRONT STREET, - BANGOR, ME.

AGENT FOR

Ingersoll Rock Drill Co.'s Rock Drills

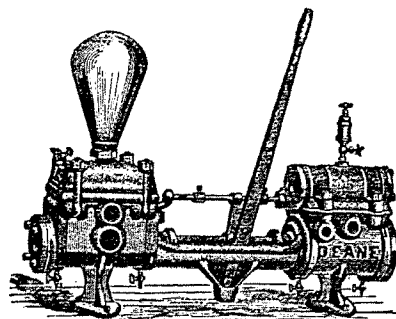
And AIR COMPRESSORS.

LAFLIN & RAND

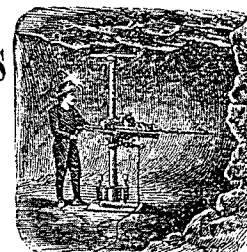
BLASTING and SPORTING POWDER,

Magnetic Batteries,

WIRES and FUSES, OF ALL KINDS.



Deane Steam Pump Co., Holyoke, Mass., manufacturers of Steam Pumps for every possible work.



Illustrating Drilling with the Ingersoll Drill, U. S. Gov't Works. Hell Gate—Ingersoll Rock Drill Co., 1 1/2 Park Place, N. Y., manufacturer of celebrated Ingersoll Rock Drills and Improved Air Compressors.

DEANE STEAM PUMP CO.'S MINING AND BOILER PUMPS.

Copeland & Bacon's Hoisting Machinery for Mines and Quarries.

H. W. JOHN'S MANUFACTURING CO.'S ASBESTOS PAINTS

High Explosives and Mining Supplies of All Kinds.

ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Loughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7½ Lisbon St., Lewiston.

BLUE HILL COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, May, 1877.
Capital, \$500,000; Shares, \$10 each; Treasury Fund, 35,000 Shares.
President, S. C. Blanchard, Boston; Treasurer, Thos. H. Lord; Secretary, John Merrill, Blue Hill; Directors, S. C. Blanchard, Joseph Nickerson, Capt. McNier, Frank B. Dole, Manering Emery.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden; Treasurer, and Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterna.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genu, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

BLANCHARD SLATE CO., of Maine. Quarry in operation at terminus of Bangor and Piscataquis R. R. Quality and natural advantages unsurpassed. Dumpage and drainage unequalled. Railroad transportation adjoining. Stock for sale. Sections leased on favorable terms. Capitalists invited to inspect.
A. C. HAMLIN, President, Bangor.

BANGOR & BLUE HILL FALLS MINING CO.,
Blue Hill, Me. Incorporated 1878.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Geo. Brooks, Orrington; Treasurer and Secretary, E. C. Smart, Bangor; Directors, J. L. Hodsdon, Bangor, Geo. Brooks, Orrington, E. C. Smart, Bangor, H. P. Blood, Bangor, Geo. R. Smith, Hallowell.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPDEN SILVER MINING CO., Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Loughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
CHARLES DUNTON, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

CONSOLIDATED ACTON SILVER MINING CO.,
On the Acton Lode, Acton, Me.
Capital, \$1200,000; 240,000 Shares. Par value, \$5. Non-assessable.
President, George P. Wescott; Vice President, John S. Morris; Secretary, Charles D. Clark; Treasurer, A. A. Dennett. Directors—G. P. Wescott, J. S. Morris, W. F. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Ferguson Haines, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.
The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.
Offices—22 Exchange St., Portland, Me., and 28 Congress St., Boston, Mass.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, W. Darling, F. H. Clergue, C. H. Hucksins, James Neuley, Jr., Chas. E. Field.

DIRIGO SILVER MINING CO.,
Acton, Me. Incorporated, Jan. 1879,
Capital, \$500,000; Shares \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, N. Lebanon, Me.; Directors, I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.
W. A. GOULD, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 95 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varham, and George W. Hutchings, East Surry, Naham Hinckley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAACS GRANT, Supt.

EDGEMOGGIN SILVER MINING COMPANY,
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Menher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Maye, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 38,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Lathan, Jeremiah Wooster.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith. Office, No. 1 Pemberton Square, Room 4, Boston.

GARDNER MOUNTAIN COPPER MINING CO.
Littleton, N. H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.
President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. G. Hayford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Howe, Jackson; John H. Gordon, M. Chase, J. S. Watts, T. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.
Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.
Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Dutton, Blue Hill; J. S. Condon, Orland.
TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trank, Geo. W. Sweetser.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamotte, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. E. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000. Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.

SIDNEY E. HORNE, Supt.
MINERAL HILL MINING COMPANY,
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.
Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 shares.
Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer, of Biddeford.
JERE G. SHAW, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each.
President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.
C. E. LANE, Brooks; Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. E. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman. W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and G, 3d floor.
President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me.; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Ducklee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndner Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 40,000 Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Loughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Loughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROUKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, 20,000 Shares.
President, Geo. B. Brown, Boston; Secretary, W. O. Arnold, Bangor; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.
SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.
E. J. SWAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 50,000 Shares.
President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me.
Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable;
Treasury Fund, 32,000 Shares.
President, Joseph H. West, Franklin; Treas-
urer, H. B. Saunders, Ellsworth; Secretary, E. F.
Robinson, Ellsworth; Directors—Joseph H. West,
H. B. Saunders, John D. Hopkins, J. F. Whitcomb,
E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury
Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-Presi-
dent, Charles Hamlin, Bangor; Treasurer, John
R. Mason, Bangor; Secretary, W. F. Seavey, Ban-
gor; Directors—John S. Jenness, Charles Hamlin,
Samuel R. Prentiss, Wm. D. Swazey, William H.
Darling, James W. Davis.

HIGHLANDS Copper Mining Co.

Offices—EAST BLUE HILL, ME.

Organized, 1880. Mines at Penobscot, Me.
Capital, \$500,000. Shares, \$5 each.
Treasury Fund.....\$150,000
President—FINDLEY J. WATT, East Blue Hill.
Secretary—FRANK H. BINDER, East Blue Hill.
Treasurer—JAMES WATT, Philadelphia.
Directors—James Watt, Christopher Binder, Joseph
H. Johnson, Findley J. Watt, Frank H. Binder, James
W. Snow, J. Wesley Leach.
Mines were examined and approved by Prof. Mon-
troville W. Dickeson.

JAMES NEALEY, Jr.

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BLUE HILL, ME.

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A Twenty Page Weekly,

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Bangor House, Bangor, Me.
Porter Nealey, Bangor, Me.
All the Bookstores, Bangor, Me.
Portland Mining Exchange, Portland, Me.
N. G. Fessenden, Portland, Me.
Geo. H. Marquis, Portland, Me.
Wm. P. Morris, Portland, Me.
Harry B. Parker, Blue Hill, Me.
John A. Hale, Ellsworth, Me.
J. M. Fernald, Lewiston, Me.
Willard Small & Co., Auburn, Me.
James Nichols & Co., Calais, Me.
J. Frank Pierce, Augusta, Me.
John S. Caldwell, Belfast, Me.
Maine Mining Exchange, Boston, Mass.
Nichols, Williams & Co., Boston, Mass.
A. K. Loring, Boston.
Geo. H. Flagg, Skowhegan.
H. M. Burnham, Oldtown.
Warren & Emery, Bucksport.

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Offers to its Stockholders and the public a limited
number of shares of its treasury stock

At \$1.50 per Share.

The above consolidation embraces the proper-
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and Forest City Silver Mining Companies, repre-
senting 2,000 feet of the celebrated Acton lode,
pronounced by all experts to be a true fissure vein
highly mineralized throughout. For the more
economical and expeditious working of the mine
the consolidation was formed, the whole is now
under the supervision of an experienced Nevada
miner, and the work of exploration at greater
depth will be vigorously prosecuted.

This Company have all necessary tools, etc., for
sinking the shaft 500 feet; suitable buildings, such
as shaft-house, ore-house, blacksmith-shop and
boarding-house. The Company have a large quan-
tity of ore now ready for concentrating, and will
work the Old Acton Shaft, which is now down 100
feet on the vein. The ore is steadily improving as
depth is attained. The management are confident
that the Acton Consolidated will at no distant day
rank among the foremost bullion-producing mines
of the country. Every means will be taken to
conduct the work honestly and economically.

Feeling confident of success the management
offer the public a limited number of shares at \$1.50
each—to create a permanent fund for the working
of the mine—that the work may proceed vigor-
ously and produce gratifying results to the stock-
holders.

The Company has 76,000 shares in the treasury—
par value, \$5 each. The officers are well-known
business men of Portland and vicinity.

Subscriptions will be received at the office of the
Company, No. 22 Exchange Street, Portland, Me.

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Treas. Acton Consolidated Silver

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Copper.....	2 00
Gold and Silver.....	3 50
Nickel.....	5 00
Gold, Silver and Copper.....	2 50

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or wont keep time, trust it with

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Bangor and Bluehill.

TWO TRIPS PER WEEK!

Steamer May Field



Leaves Bangor every TUESDAY
and THURSDAY at 8 A. M., for
Bluehill, touching Hampden at
8:30; Winterport, 9:30; Bucks-
port, 10; Sandy Point, 1:30; Fort
Point, 11; Castine, 12; connecting with boat to
Islesboro, arriving at Deer Isle at 2:00; Sedgwick
at 2:30, and Bluehill at 4:30 P. M.

Returning, leaves Bluehill every WEDNESDAY
and FRIDAY at 7:30 A. M., Sedgwick at 10:00, Deer
Isle at 10:30; Castine at 12:00, noon, connecting
with steamer for Islesboro and Belfast; Fort Point
at 1:00; Sandy Point at 1:30; Bucksport at 2:00, ar-
riving in Bangor at 4:00 P. M.

BAR HARBOR AND S. W. HARBOR.

Steamer City of Bangor

Leaves Bangor every SATURDAY at 8 A. M. for
Bar Harbor, touching at all landings except Blue-
hill, as above, making three trips per week be-
tween Bangor, Castine, Islesboro, Deer Isle and
Sedgwick.

Returning, leaves Bar Harbor every MONDAY at
6:30; S. W. Harbor at 8, arriving in Bangor at 4 A.
M. FRANK D. PULLEN, Agent.

Bangor, May 4.

Bucksport & Bangor Railroad



CHANGE OF TIME, MAY. 3d, 1880.

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.35	1.30 7.20
Arrive in Bucksport,	8.45	2.45 8.30

Direct connection is made with the two through
trains on Maine Central via E. & N. A. Railway;
also with Bangor & Piscataquis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arrival
of morning train from Bangor, reaching Blue Hill
at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection
east, leave Bucksport 1.00 P. M.

apra L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this
line will leave India Wharf, Boston, and Franklin
Wharf, Portland, every evening (Sundays except-
ed) at 7 o'clock.

CONNECTIONS are made at Portland with
GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE
CENTRAL, KNOX & LINCOLN Railroads, and with
Steamers of the BANGOR & MACHIAS LINE; and at
Boston with all lines for points South and West.

Tourists will find this one of the finest OCEAN
TRIPS on the New England coast.

WM. WEEKS, J. B. COYLE, JR.,
Agent, Boston. Gen. Ag't, Portland.

BANGOR AND ELLSWORTH STAGE LINE.

Stages leave Bangor for Ellsworth at 8 o'clock
A. M. and 8 P. M., or on arrival of Western trains
from Portland and Boston, connecting at Ells-
worth with stages for Bar Harbor, Sullivan and
surrounding towns. Good covered coaches run
over this line between Bangor and Ellsworth.
Extra teams furnished at all times, at reasonable
rates, at their stables in Bangor and Ellsworth.

JOHN M. HALE & CO.

Ellsworth, March 2, 1880.

BUCKSPORT AND BLUE HILL STAGE LINE.

The stage leaves Bucksport daily, Sundays ex-
cepted, at 1 P. M. for Blue Hill and Sedgwick.

Returning, leaves Blue Hill, daily, Sundays ex-
cepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to
Blue Hill, and by the Blue Hill driver through to
Bangor.

A. P. CURRIER & CO., Proprietors.

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LEMUEL NICHOLS.....PROPRIETOR.



Can furnish parties with Double Teams, Top Buggies, Phaetons, Conco, or almost any kind of vehicle at short notice. Hacks for Funerals, Wedding Parties, and Steamboats at short notice.

The proprietor will give his personal attention to the Letting and Boarding of Horses. All orders left at the stable Office.

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Cashier Second National Bank, Bangor, Me.

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Assortments of Furniture

EVER SHOWN IN PORTLAND

Having bought before the great advance in prices, we shall give our customers the benefit of the same. Please call and see our new styles and look through our immense stock before purchasing. We are in a position to make our prices satisfactory to all.

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Manufacturers and Dealers in all kinds of

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But more especially a Miner needs Strong, Honest and Well-Made

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Sign of dressed man.

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ALL GOODS WARRANTED.

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Blue Hill, Maine.

HARRY E. FISKE, PROPRIETOR.

H. A. TRIPP,

Counsellor & Attorney at Law

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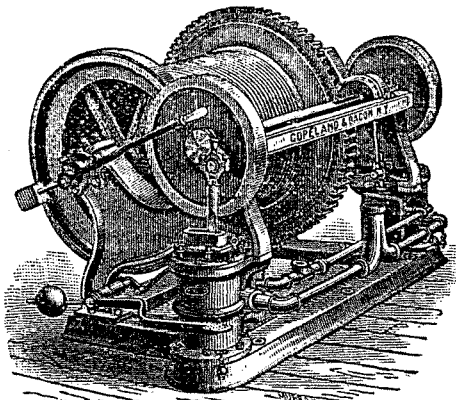
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of any class of ores.

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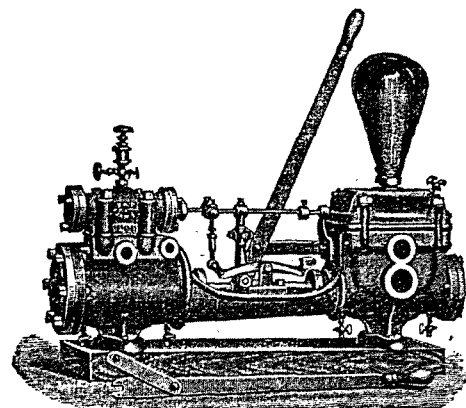
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We would respectfully call the attention of miners
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either vertical or horizontal, piston, plunger or
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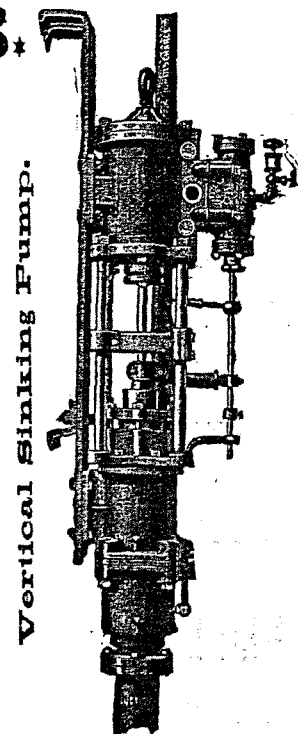
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Vol. I. No. 21.

BANGOR, MAINE, MAY 21, 1880.

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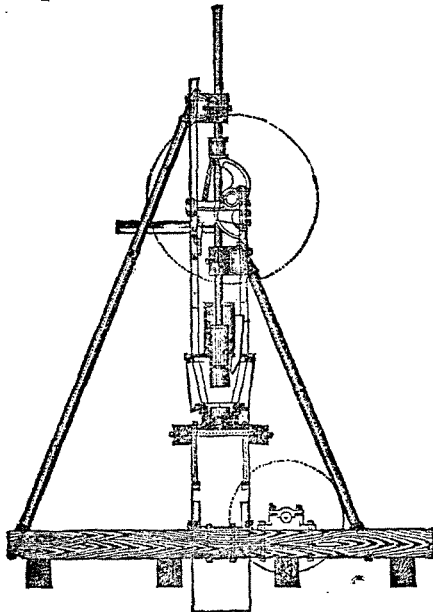
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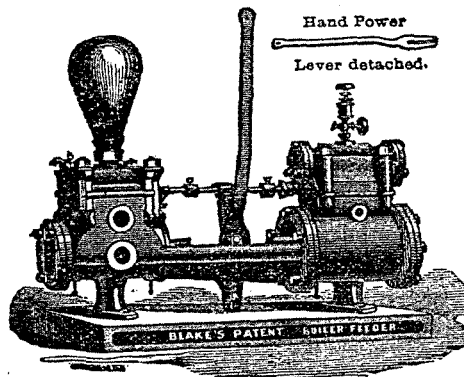
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Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

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Samples of ore sent by mail or express, must be prepaid.

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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MAY 21, 1880.

It strikes us that mining companies which cannot pay their advertising bills as per agreement cannot be in first-class financial condition. We propose shortly to publish a list of those which cannot or will not come to time.

ELEMENTS OF SUCCESS.

The mining industry of Maine is now passing through a most critical period and it is of the utmost importance that everything connected with it be viewed in its proper light and its present condition be thoroughly understood. Upon this does its immediate success almost wholly depend. We say "immediate" success, for sooner or later the mineral wealth of this State is sure to be developed and some one will reap a rich harvest; but just now a few unwise measures and a few wrong methods adopted will most certainly result disastrously and give mining matters a set back from which it will take months to recover, although it is already too far advanced for its life to be crushed out entirely.

The developments of the past few months have proven several things beyond the shadow of a doubt. First and by far the most important of all is the fact that Maine abounds in deposits of the precious and base metals which will pay well to work. While it can hardly be said as yet that any veritable bonanzas have been discovered, an encouraging feature is witnessed in the increasing richness of the ores as depth is attained, while many of the mines where as rapidly as possible the shafts are penetrating deeper and deeper into the bowels of the earth, have exposed to view a sufficient quantity of ore to pay all their expenses and a handsome dividend besides if necessity should compel them to stop the work of exploration and come back on their tracks and remove it.

But another and almost equally important fact has become evident, which the people of this State are but just begin-

ning to realize. It is this—that mining is not child's play—that it is not even ordinary work which any day-laborer can perform—but, that it is a *science*, requiring skill, energy and above all an extensive experience in order to make it a success. Here is a great disadvantage under which we have had to labor. Until the fame of Maine as a mining district had reached the Pacific slope, we had few men among us who could tell where to locate a shaft or who knew how to sink, timber it or carry on the work in mining fashion. In view of this lack of knowledge it is a matter to be wondered at that so much has been accomplished in the way of development, and that so good a showing has been made in various parts of the State. If a tenth part of the mining work which has been performed the past year in Maine had been under the direction of an experienced miner, the old Pine Tree State would ere now have astonished the world by her out-put of the precious metals. Within a short time, however, quite a large number of mining men have come among us, and more are to follow, and very soon there will no longer be any plausible excuse for carrying on mining work in the bungling and ruinous manner which has already nearly brought to grief so many valuable properties. Many of these men have superintended large and extensive mining properties in the West and elsewhere, and one of them can very easily take charge and have the oversight of a number of mines, at least for some time to come, or until the underground workings shall have reached a considerable depth.

There is one thing more which experience has shown to be absolutely necessary to the successful development of a mine; it is CAPITAL. This is a point which no one will care to dispute, and here it seems to us that a few words relative to the formation of mining companies may not be out of place. Is it not evident from the present condition of some of the Maine companies that it is worse than folly to attempt to work a mine *without* capital? We think it is; and it is this method of attempting to do business which has prevented in a great measure, the really sound companies and undeniably valuable properties from receiving the attention they have deserved. If capitalists can be induced to take large blocks of a certain stock as a permanent investment, they will hold it without any regard to the fluctuations of the stock market, and if the property makes a good showing the company will have no difficulty in disposing of their treasury stock at any reasonable price at which they may place it, and thus procure funds for prosecuting work; but if the stock is peddled out in small lots to clerks, laborers and others of limited means some of the stockholders are sure to become hard up or frightened and if they cannot sell for \$1 they will sell for 50 cents; or if they cannot get 50 they will take 25, and the moment a general decline in stocks takes place they become excited and panic-stricken and are willing to sell at any price. Of course all attempts to sell treasury stock under such circumstances are without avail; work upon the property must stop, and very likely the company will soon be lost to sight, though to memory dear.

Such is the history of too many enterprises of this sort, and may we not learn from them a lesson which it will be well to heed? If we have what we believe to be a valuable property, and are neither possessed with the means for de-

veloping it nor can succeed in attracting the attention of capitalists to its merits, will it not be better to bide our time and wait for the period which is not far distant when capitalists from all over this broad land will be turning their eyes to the undeveloped mineral resources of Maine? We shall not have long to wait. Many are already looking in this direction and are only waiting for substantial returns in the shape of dividends paid to stockholders, which we who are on the ground and are familiar with the condition of some of the pioneer mines, know to be near at hand.

Let us not be too hasty in our endeavors to secure wealth, neither allow our enthusiasm to run away with us. There is a good time coming for all who may enter the great field of MINING in the right spirit, with eyes open to its golden possibilities, yet bearing in mind the many snares and pitfalls into which the unwary may fall, putting forth their best efforts to assist in the great work of freeing this noble industry from the suspicion and distrust into which she has in a measure fallen, through the machinations of evil and designing men.

Personals.

SUPT. BRYANT, of the Deer Isle, made us a brief call on Wednesday last.

We received a pleasant call on Tuesday last from E. C. AREY, Esq., of Winterport.

PROF. RICHARDS, of the Massachusetts Institute of Technology, is passing the week in Maine.

MR. HOWARD P. SOULE, of Nevada, has recently been appointed Superintendent of the Maine Acton.

PROF. C. H. HITCHCOCK, the well known geologist, was in the state last week examining mining properties.

COL. J. CARY FRENCH has been in Boston the past few days putting his new property, the "Boss of the Bay," on the market.

E. G. JOHNSTON, Superintendent of the Pine Tree mine, passed through Bangor on Thursday last on his return from Boston to Sullivan.

MR. E. F. JONES, of Farmington. N. H. a gentleman largely interested in properties on the Acton lode, arrived in Bangor on Wednesday last.

GEO. D. HOLT, Supt. of the Lawrence, has returned from Boston, having purchased a steam engine, boiler, pumps, etc., for the company, to be shipped at once.

MR. THOMAS CAHILL, formerly of Nevada and now in charge of the Comstock Assay Office in this city, is to assume the superintendency of the Consolidated Hampden mine.

S. B. SMITH, Supt. of the Silver Reef and other mines at Blue Hill, has been obliged on account of ill health to return to his home in Boston. We wish him a speedy recovery.

The Georgetown (Col.) *Courier* says: "The Peabody Lode is located on Columbia mountain, about 2000 feet above Silver Creek and about 3000 feet southwest of the main workings on the Joe Reynolds No. 3 lode, and is owned by MR. E. C. NICHOLS, of Bangor, Me. Comparatively speaking the lode is yet in an undeveloped state, there being

but one shaft on the vein and that only 40 feet deep, which is not sufficient to show its real value. Only one wall is exposed, that being the south or foot wall, upon which is a vein of quartz about six inches in thickness that is impregnated with galena, small particles of "brown sulphurets," copper pyrites, green and blue carbonate of copper and silver glance. Assays from the vein show all the way from 103 to 20,000 ounces in silver per ton, and mill-runs from 235 to 426 ounces. The mine derives its name from the great philanthropist, George Peabody. Work will be resumed within a short time, and in the hands of a good company it can be made to yield ore in large quantities with very little development, and as the quality is all right it cannot help but remunerate its owners in a satisfactory manner. We had the pleasure of an introduction to the owner and found him to be an affable and genial gentleman, and we are gratified to know that he is pleased with his purchase. It is a good property Friend Nichols, and development will prove its value."

DRESSING MAINE ORES.

BY R. A. VARDEN, M. E.,

OF THE ACTON CONSOLIDATED S. M. CO.

(2.)

The dressing, or as it is usually called in this country, the concentrating of ores is the mechanical process of separating the useful from the valueless minerals with a view of bringing one or more of them into a fit condition for the smelter, or reducing the bulk for transport. For it is comparatively seldom that metallic minerals, lead, copper, silver, etc., occur naturally so free of gangue as to be smelted in the state of crude ore, although ironstone and low produce copper ores such as those from Rio Tinto or Tharsis in Spain and Mansfield in Germany would scarcely repay the cost of concentrating; and as the deposits in which they occur are usually of an almost unvarying yield of considerable extent, works for treating large quantities are erected on the spot.

The term dressing applies especially to the mechanical treatment of ores, whereas concentrating may be either a mechanical or metallurgical process. It is with dressing proper I propose to deal in the following. Before speaking of the various manipulations the ore has to go through I will state in short the physical laws upon which the process is based. The difference in the specific gravities of the various minerals and the consequent different velocities attained by bodies of the same size and shape composed of these substances falling through water afford us a means of effecting the desired separation. If bodies of various forms, sizes and densities be allowed to fall through water in a state of rest, they will not arrive at the bottom at the same time owing to the resistance offered by the water to them. A certain classification is here at once visible. Now the resistance is in proportion to the surface exposed and not in any way dependent on the specific gravity which latter has influence on the velocity only, consequently the loss in velocity which all submerged bodies are subject to, is proportionately greater on lighter than heavier ones of the same size and similar form. If then, we suppose bodies of various densities, but similar in shape, dimensions are allowed free fall through water, those of the greatest density will arrive at the bottom first. Because the resistance is proportionate to the surface exposed or the square of corresponding dimensions while the velocity is guided by the volume or cubes of the same measurement, it is evident, that if the bodies differ only in volume, having the shape and density the largest piece will acquire the greatest velocity and arrive at the bottom first. The last case is that in which the bodies are

of the same volume and density differing only in shape; then those exposing the largest surface, or the thinnest, will arrive at the bottom last.

It may be gathered from the above that theoretically there are two systems of dressing ores possible: viz, classifying according to absolute weight first, and separating the different sized grains afterwards, and sizing first and then separate according to density. The latter is the method used in practice.

From the study of these laws we see how important it is in order to ensure successful dressing, to thoroughly size the stuff, as the greater volume of one grain of less density will cause it to acquire a velocity equal to a smaller grain of greater density. As an illustration the following table may be quoted, showing the fall of spheres per second; the depth is in millimetres:

Diameter m. m.	Galena sp. gr. 7.5 m. m.	Blende sp. gr. 4. m. m.	Quartz sp. gr. 2.6 m. m.
17.43	1570	1066	780
11.32	1320	898	653
8.71	1110	750	550
6.16	935	624	461
4.36	785	514	385
3.08	660	448	326
2.17	555	378	275
1.54	465	317	231
1.08	393	266	194
0.77	327	210	163
0.54	275	188	137

From this table we see that should the grains have the same diameter, say 2.17 m. m., the galena would travel at the rate of 555 m. m. per second and quartz only 275 m. m. or about half the distance. But are the sizes different? a piece of galena 0.54 m. m. in diameter would have the same velocity as quartz of 2.17 m. m., consequently no separation could be effected.

As above mentioned shape of the ore grains lose considerable influence on dressing operations, but I need hardly add that it is impossible in practice to meet this requirement, so that extra care should be bestowed upon sizing.

ANTIMONY.

From a Private Letter by Wm. E. Nickerson, Chemist, Somerville, Mass.

The only ore of antimony occurring in sufficient quantity to be smelted is the sulphide or sulphuret and is often called grey antimony. Its mineralogical name is Stibnite and chemical formula Sb_2S_3 and contains 74 per cent. of antimony and 24 of sulphur. Since Stibnite is the only antimony ore of commercial importance I will make no mention of the others.

In obtaining metallic antimony from the ore the first operation consists in separating the grey antimony sulphide (Sb_2S_3) from the quartz or other gangue with which it occurs. There are several ways of doing this according as the locality of the mine renders one or the other most feasible. First the ore may be pulverized by passing it through a crusher and then between rolls or through a stamp after which the antimony sulphide may be separated from the gangue by washing on shaking tables called jiggers. The quartz, etc., being lighter are washed away leaving the heavier Stibnite behind. Or, the broken ore may be placed in large earthen crucibles having holes in the bottom and resting over smaller crucibles which are bedded in hot sand or ashes, the whole being enclosed in a suitable brick furnace, and the heat managed in such a way that the Stibnite which is easily fusible shall melt and run down through the hole in the large crucibles into the smaller ones, leaving the quartz and other refractory gangue behind. This method is employed in France and Germany.

Lastly, instead of using crucibles, the ore in lumps may be placed on the floor of a suitable reverberatory furnace and the melted Stibnite drawn off at a proper opening. After

the Stibnite has been separated from the gangue the next operation is to reduce it to metallic antimony, which is accomplished by roasting it either with a mixture of charcoal and carbonate of soda or of metallic iron, salt cake and charcoal. The metal is purified by fusing with a little fresh Stibnite, or with oxide of antimony, or with protosulphide of iron and an alkali.

Antimony possesses a nearly silver white but slightly yellowish color, strong metallic lustre and a foliated crystalline structure. It crystallizes in rhomboidic crystals. The specific gravity of antimony as compared with water is 6.7. It melts at 450 deg. Centigrade scale. Antimony is volatilized, air and oxygen being excluded only, at a bright white heat. It is a very brittle metal, neither ductile nor malleable, but harder than copper. Antimony readily forms alloys, imparting to them some of its own brittleness and hardness. It is therefore added to tin, lead, pewter, etc., to render them harder. The chief use of antimony is for type metal which usually consists of 4 parts of lead, 1 of antimony and a little copper. Antimony also enters into the composition of the anti-friction alloys used for the bearings of machinery. Some of the salts of antimony are used as pigments, and others are used in Pharmacy, as tartar emetic, which is an antimono-tartrate of potassium.

The wholesale price of antimony in the market is about twenty cents per pound. The smelter would probably realize about fifteen or sixteen cents when delivered in some metropolis. If the ore runs good it ought to yield at least 25 per cent. of antimony which at 15 cents per pound would be worth \$75 per ton of ore. If wood were used as fuel it would have to be kiln dried, after which one ton of ore will require 1 1-2 cords of wood, about. I cannot say on the spot just how much it would cost per ton to smelt the ore, but if the ore is reasonably good and the conveniences are what they should be I can at present think of no expenses that would aggregate more than thirty dollars per ton of ore incurred in smelting and refining. Possibly it could be done much cheaper. If the ore proves of the right kind I think that no rolls or stamps or washing apparatus will be necessary.

The report is just out that antimony has found a new use in the rubber manufacture which will probably cause an increased demand for it. How true the report is I cannot say.

Somerville, Mass., May 5, 1880.

Copper Mining in Canada.

Editor *Maine Mining Journal*:

During a recent visit to Canada and while examining the mines there I saw one which resembles some of our own copper mines so closely that I spent some time in obtaining information about the working of it, etc. I learned many facts which were of great interest to me, and thinking that your numerous readers would also find them of interest I will try and give you some account of the mine.

The Capelton mine as it is called is situated in the town from which it derives its name and is about eight miles from Sherbrooke. It has been worked many years and has produced large quantities of copper. The surface showing consisted of a twelve foot vein of mundie which changed in a little depth to yellow sulphurets of copper. The shaft goes down on an incline (I do not remember the exact dip) following the vein and is now about 700 feet deep. The vein varies in width being in places 30 feet wide, in others narrowing down to ten. I should judge the average to be about 15 feet. They are now taking out 2500 tons a month or about 100 tons a day. The ore is all taken out by contract and at an expense of from \$1.50 to \$2.00 per ton. The whole vein matter I think will average nearly three per cent. copper. They save all the ore that contains over 3 per cent. The ore piles run from 5 to 10 per cent. copper and 2 1-2 oz. silver, which latter they have not hitherto

saved. They get a little ore that assays 15 per cent. copper; that they ship as it is.

After they sort the ore and break it up so there shall be no piece larger than the two fists they cart it and make it into piles (over a quantity of wood) of about eighty tons. These they bank with earth similar to a charcoal pit and proceed to roast out the sulphur. The tops of these piles are covered with brimstone and the atmosphere thereabout is impregnated with a sulphurous smell which is far from agreeable. This, by the way, is the same method pursued by Prof. Hill at his extensive works at Black Hawk, Colorado, to free refractory ores of sulphur. The ore is not crushed at all but after being sufficiently roasted is taken to the smelting furnace and run into matte containing 40 per cent. copper. No flux is used. The fires burn so fiercely that they use the mundic and rock containing from 2 to 3 per cent. copper to deaden them with and thereby save something from the low grade ores. They have generally shipped the copper matte to Baltimore but are now making preparations to refine it at their own mills.

My interview with the smelting was rather brief for another such taste of the infernal regions I hope I shall never have. The air was so filled with fumes of brimstone I could scarcely breathe. I could not help noticing the inexpensiveness of the buildings and machinery. The former were made of rough boards and would hardly keep out the rain. They had but one small engine that was used for hoisting and pumping water. They had used steam drills but the managers told me they had decided that good men at \$1.50 per day with hammers and hand-drills were cheaper. The managing director, Mr. Leckie, whom I found to be a very courteous gentleman, has a thorough knowledge of scientific mining and knows how to use it in a practical manner. One of the pleasantest things I learned about this mine was that it pays dividends of from ten to thirteen thousand dollars a month. It is needless to say that none of the stock is for sale.

Now as the ore in many of our mines, the Douglass, Blue Hill and others is identical and equally as good why should they not in a short time also pay handsome dividends? With proper management I believe they will.

W. K. KNOWLES, M. D.

Bangor, May 19, 1880.

Copper Mining at Brooksville.

BY A. E. BARCLAY, OF BANGOR.

On Monday last I visited the new copper mining district at Brooksville, at the request of Mr. E. B. Smith of Bangor, who has lately leased some fifteen acres of land owned by Captain Tapley of the above place. It is only quite recently that the attention of the owner of the land was directed to the indications of mineral showing at various points on his farm. Having satisfied himself of the presence of copper there, he sent samples to New York where a number of mining gentlemen thought the look of the ore so good that they wished to form a company at once, but Capt. Tapley preferred leasing the property to some one whom he felt sure would push ahead in developing it. He therefore leased the land to Mr. Smith, who is now making rapid progress in showing up the vein. I found seven men hard at work uncovering the lode, under the able superintendence of Mr. Maddocks.

The ledge on which they are at present working is some 31 to 33 feet wide, with a well defined footwall, and is exposed for a distance of about 30 rods, where it is then lost sight of in the overlying soil. For a distance of some 50 feet where the rock has been exposed rich copper pyrites can be seen by simply breaking the surface with a hammer. In the spot where some few blasts have been put in, and where it is intended to commence a shaft, some very fine ore was blasted out in my presence. Although enough work has

hardly been done yet to fully expose the vein, I think from the appearance of the lode that at a very slight depth a regular ore vein will be found, where the numerous small veins seen all over the surface of the lode, will unite to form a solid vein of ore. At the present showing the ore is most concentrated towards the footwall. The strike of the lode is N. N. E. by S. S. W. with a slight dip to the east. There is now quite a show of ore on the dump, all taken from the surface, which, when properly picked will make a pile of several tons of good shipping ore. A sample of ore taken by Mr. Smith on Saturday last was broken in two, one part assayed by Mr. Thomas Cahill gave 32 9-10 per cent copper valued at \$134.89 per ton of ore. The other portion I found to yield on assay 30 per cent copper = \$123 per ton. This assay comes rather lower than the other, from the sample containing a little rock disseminated through it. Two other samples recently assayed by me gave respectively 15 and 17 per cent copper. These results are highly satisfactory and naturally render the owners of the mine very sanguine about the future value of the property.

The mine is conveniently situated within half a mile of the Bagaduce river, which there forms a most secure and sheltered harbor, with a good depth of water for large vessels. A tramway could be built very cheaply from the mine to the shore, or a good cart road made, with a small outlay, both for taking down the ore for shipping and for getting supplies, machinery, etc., to the mine.

Bangor, May 18, 1880.

The Prospector.

"The night is near, the trail is dim,
With chapparal o'ergrown;
Till morning stay, go not that way
Alone."

"Day after day, year after year,
I'm like a dry leaf blown
By the shifting gales, o'er hills and vales,
Alone."

"And wintry storms have o'er me lower'd,
And snow-flakes round me down,
As nights I lie beneath the sky
Alone."

"And summer days have seen me oft
Where the sun has fiercest shone
O'er burning sands, on desert lands,
Alone."

"Far in the mountains gleams a light
That guides me on and on;
I follow its gleam, through forest and stream,
Alone."

"Tis Fortune's beacon guides me on,
O'er yonder bluff it shone,
Ere falls the night I scale the height,
Alone!"

Over the bluff, in the deep ravine,
With sagebrush all o'ergrown,
Lie a pick and a pan, and the bones of a man
Unknown."

Dips, Spurs and Angles.

Ten mines in the Black Hills produced \$267,000 in gold during the month of March.

The incomes of the enormously rich men of this country last year were as follows: Vanderbilt, \$10,000,000; Gould \$15,000,000; Sidney Dillon, \$10,000,000; and Jim Keene, \$8,000,000.

Arthur McEwen, editor of the *Virginia Chronicle*, who has been taking in the sights of the city, and rehabilitating his Comstock moth-eaten ideas, for the past five or six days, will return to his jungle in the wilds of Nevada by this afternoon's train.—[*San Francisco Stock Report*.]

As Mr. Muybridge has succeeded in taking a perfect photograph of a deer at full run, it is proposed to have him try his patent camera on the prices of stocks. If he can

succeed in photographing them at their present down grade gait his machine is lightning indeed.—[*Stock Report*.]

Now the stocks are down on the Comstock and the market refuses to boom, the Comstockers put in their time in attending meeting of temperance reform clubs and all the saloons have reduced the price of drinks to 12 1-2 cents. Will the good old times ever return when a temperance lecturer who ventures to appear on the Comstock will be chucked down a shaft without ceremony or a chance for a dying prayer?—[*San Francisco Stock Report*.]

The Denver Tribune boasts of Colorado's fine horses, handsome women, charming girls, well-dressed men, fat babies, long-legged dogs, busy mechanics, industrious chinamen, modest dressmakers, romping boys, inquiring strangers, expert printers, well-paid doctors, praying preachers, colored calciminers, express wagons, over-paid lawyers, attentive railroad men, honest bakers, piles of brick, new buildings, pleased visitors, signs of growth and genuine American get-up-and-git.

The total capacity of the steel mills at the present time throughout the world is estimated at about 3,000,000 tons for the year's production. In the United Kingdom there are 120 Bessemer converters built, of which over 80 are at work, and the annual yield from these is considered as from 755,000 to 800,000 tons. The American make is estimated at 750,000 tons, the next largest producer being Germany, which is considered by many to be capable of the greatest expansion among all the steel-making countries. Less than two years ago there were twenty-five converters in Prussia working out of the fifty built, and turning out 375,000 tons which was increased by the works in Saxony and the Palatinate to 400,000; and since the revival of trade fresh converters have been put into operation. The estimate of the French steel manufacture is about 275,000 tons; that of Belgium, 150,000; of Austria, with 22 converters, 250,000; and of Sweden and Russia, 150,000.

"You army chap," said the girl to her military lover.—*Bangor Com.* "That's where you soldier self," he wrote back when he eloped with another girl.—*Ottawa Republican.* This may be trooper haps. Hussar for the other girl!—*Boston Post.* Some militias mischief at the bottom of it, no doubt.—*Philadelphia Bulletin.* It's the regular thing of corps for a fellow to keep company with one girl.—*Post.* When our rifle on these paragraphs we felt like saying to the poor girl, "What major say anything about it?" We would give an order to stop all punning in this direction, if we thought there was any chance of paragraphers a bayonet.—*Boston Sat. Eve. Gazette.* This has big gun to experience quite a boom. It's astonishing howitzer going the rounds. We could not help but picket up.—*Boston Journal of Commerce.* Cannon of you fellows let up on this siege? fort is getting to be a terrible bore. We fear it will have to go the rounds; if so we shall issue a bullet-in and fall in line with the rest. Are there mortar follow?

A Carson City paper reports the following lively law proceeding: Yesterday afternoon a young man came into Justice Cary's court room with the rim of his hat drawn down over his eyes, and remarked: "Do you know me?" "I think," replied the court, meekly, "that you are the chap I sentenced for stealing sheep about a year ago." "That's just the hairpin I am," replied the other, "and here's \$20 for my fine." "But you served your term in jail," said the judge, "and owe no fine." "That's all right, old boy; but I'm about to commit an assault and battery and I guess I'll settle now. You're the man I propose to lick." "Oh, that's it!" rejoined the court, pocketing the coin; "then you can start in, and we'll call it square." The young man advanced to the court, and let out his left. The judge ducked his head, and rising up, lifted the intruder in the eye with a

right-hander and sent him over against the wall. In a moment the court was climbing all over the man, and in about three minutes his face was hardly recognizable. The man begged the court to let up, which he finally did. As the fellow was about to go out Cary went after him with: "See here, young man; I don't think the fighting you did ought to be assessed at any more than \$2.50—here's \$17.50 in change. I ain't charging you anything for fighting, but just for my time. Next time I won't charge you a cent." The rough took the change and the next train for Virginia City.

All these stories about self-made men and the amount of property they have succeeded in accumulating, are getting to be rather monotonous. Besides, the public attention is not called, in order that praise may be bestowed upon another class of men who are tireless in their race with wealth. An instance comes to mind, and all the facts can be vouched for, of a young man who, at the age of twenty-three, was left an orphan and heir to about half a million. How much better such a story reads than the old one of being honest but broke! This young man had two strong arms—that was all he could get when arms were given out—and a determination to see life regardless of the expansion of head. He scorned to run in debt, but settled down in modest apartments at the Hotel Brunswick, determined to live within his income at all hazards, unless he could see an opportunity for larger investments. With one object steadily in view, he worked early and late—early in the morning, which was a sequel to the late work at night—and time showed how much energy he had lying around loose. Without attempting to follow him in all his arduous duties, it is sufficient to say to-day the young man stands on the proud eminence of bankruptcy, a height which he has reached unaided, and he has proven the utter fallacy of poor men being honest. This is only one instance; if the press will let up on the other class for awhile, it will be considered an evidence that they agree to tell no more of those foolish stories. If they do not show such evidences, there are young men enough in Boston who have struggled successfully with large fortunes to enable us to publish one story each day and two on Sunday.—[*Boston Globe*.]

CORRESPONDENCE.

Mine Working on the Sabbath.

Editor Maine Mining Journal:

As the subject of working the mines in this locality is attracting considerable attention at the present time and especially the idea of working them upon Sunday is being discussed by mine owners, miners and the public at large, I take the liberty of sending you a slip cut from a "Belmont Nevada Mining Paper" which I think furnishes food for thought for all classes.* Of course the dissipation described as prevalent there will not apply here, for thanks to a wise legislature, the organic law of this State takes care of that, and such a thing as a mine owner, superintendent, miner, or any other man, being under the influence of liquor is entirely unknown; but the financial statement will apply here as well as there.

But I wish to carry the same idea a little further than "Old Miner" has done. Mining is a very peculiar business and requires peculiar rules to carry it to a successful issue. Every detail both in mine and office must be watched and taken care of, no time lost, and underground work prosecuted to the best advantage and at the least possible expense. Now, while mines remain dry there is no particular loss entailed by ceasing work upon Sunday, except that the men are not in as good condition for good work. For an experience of twenty years spent in mines and mining makes me certain that Sunday is not observed as a day of rest in the strict sense of the word, even by the most temperate, and no matter how strict the legislative enactments may be. But when, as in nearly every case, depth is attained and water becomes more than plenty, the circumstances change greatly, and a manner of working the mine which was only objectionable before is now a positive injury to the stockholders and also the mine. For by ceasing work from 6 o'clock P. M. on Saturday until Monday at 7 A. M. gives your water such a gain upon you that in most cases the entire day will be used up to free the mine of water—no progress made in the main object sought, that is the sinking of the

shaft, or excavating ore, and I have worked in mines where a stoppage of 24 hours by accident would entail a loss of one month's time before the mine could be freed from water with 14 inch Cornish pumps; and besides water raising in the levels and lower workings of most mines does injury to the property for almost all of the country or wall rocks, after being exposed to the atmosphere undergo a change in a greater or less degree, and when the water again covers them they slack and flake off, thereby making extra and useless work in raising the debris to the surface, and making more timbering necessary to properly secure the ground.

I am strongly of the opinion that it is more a work of necessity to work a mine seven days and nights of the week than in any other of the avocations of life, and altogether of more importance than the saving of a little hay or grain should a thunder storm threaten upon a Sunday in the midst of the harvest season.

I think your paper is doing great and permanent good for the mining interests of this State, and is, or should be a welcome guest to every mining man.

Hoping I have not wearied your patience, as well as that of your readers,

I am Yours Very Respectfully,

WILKIE DARLING.

Supt's Office, Revere S. M. Co.,
Blue Hill Falls, Me., May 16th, 1880.

*The article referred to is too long for publication in this issue and while the views advanced are entitled to some consideration, they are hardly applicable to the civilized mining districts of Maine.—[Ed.]

A ROMANCE OF THE RAIL.

The traveller in search of health or wealth or pleasure who now makes the journey to Santa Fe, enjoys the luxury of a palace car and speeds on his way drawn by the improved locomotive of the period. The engine has really penetrated the Ancient City, the centre of a land which was, notwithstanding it had long been populated by the Caucasian race, still a *terra incognita*—a world of mystery to which the imagination gave Oriental wealth, and which story celebrated as an inland region invested with daring desperadoes. It was here that Indian tradition located the vast riches that lured the Castilian adventurer and soldier Coronado on his search for the seven cities of Cibola, and notwithstanding the report of this first of all Rocky Mountain explorers was unfavorable to the country, he was soon followed up the Rio Grande by other adventurous Spaniards. Many who came remained, and about the beginning of the seventeenth century a brave body of Jesuit missionaries located the town of Santa Fe, or the City of the Holy Faith, on a pretty little creek flowing out of the mountains, and on a site occupied at the time by the Pueblo Indians. Side by side to this day stand the first Christian church occupied by the Holy Brotherhood, and a building which did service as the dwelling of the sun-worshippers of the West. Both are crumbling and dingy, but for this reason are none the less interesting as objects of curiosity.

There is probably not another city in the Union which is so picturesque in appearance as this same Santa Fe. It is surrounded by beautiful mountains and mesas and is covered by the loveliest, laziest sky in the western world. Although the place has endured for hundreds of years there are not more than two stone or brick buildings in it. The houses are all made of *adobe* and are, as a rule, one story high. The Palace is now the office of the Governor. This was built during the early half of the eighteenth century and has witnessed scenes which the Monroe doctrine of to-day would never think of tolerating. Here reigned in royal magnificence and power, first, the Spanish Viceroy, and then the Mexican Governor—both so far removed from the central authorities which created them that their conduct was in no way circumscribed for prudential reasons. There were no railroads, no telegraph wires, no newspapers in Santa Fe in those days. Rulers were despotic and their subjects abject and treacherous. Communism was perennial and revolution periodical. It was late as 1848 that the populace arose in the assertion of power, drove out the Mexican authorities and massacred the entire number, carrying the head of the Governor about on a pole through the streets

for days afterwards in true Spanish style. So recent has this occurrence been that the man who led the revolutionists is still a resident of New Mexico.

But one does not need to go to Santa Fe to find interesting reminders of the time that is now forever past. Beginning at the Missouri river the Atchison, Topeka and Santa Fe road follows the old Santa Fe Trail—a line of travel which was marked out for them by the men who earned fame for themselves and opened to the world the vast kingdom of the plains and the mountains—a class who live only in history, with the rarest exceptions, the real pioneers of the West, of whom Kit Carson, the Cents. St. Vrain and Autobias were fair specimens.

This trail, marked out by them, which we may say extended from the Missouri river to the Rio Grande, and which was later extended to the Pacific Coast, has become historical, and is one of the roads that will be handed down to posterity in the annals of the nation. Stretching over prairie and plain, mountain and mesa, winding through valley and along river ways for a distance of a thousand miles, where no man but the aboriginal savage found a place of residence, where buffalo, antelope, deer, elk and all other game were to be had for the asking, where wild beasts prowled in herds, no wonder it became the scene of the wildest fiction of the century—much of which though seemingly unnatural and exaggerated was based on fact. So numerous were the obstacles necessary to surmount in crossing these plains in going to Santa Fe, and so great the risk that the man who attempted the task was entitled to and received all the consideration due a hero. To start for Independence, Missouri, for Santa Fe, New Mexico (*Nueva Mejico*) was to start out upon a month's journey, with the prospect of subsisting on jerked buffalo, of warning by a fire kindled with buffalo chips, and of fighting your way through half a dozen bands of hostile Indians, and of being scalped in the end.

But the love of adventure, the curiosity excited by the stories which gradually were echoed back from the Rocky mountains, and above all the desire of wealth inspired by these stories, led many to dare the risk. In 1805 when Captain Pike first saw Santa Fe, all goods sent to New Mexico came through Vera Cruz. Ordinary brown domestic sold at three dollars a yard. In 1822 the first trade expedition was sent out with \$30,000 worth of goods. From that time up to the present the Santa Fe trail, which has recently been growing shorter and shorter as the iron rails were laid one after another across the continent, has been a scene of increasing life and activity, rendering the prairie schooner, the chosen vessel of the time, one of the greatest blessings known to the world. Millions of dollars worth of goods were shipped across the plains; vast fortunes were made; mountains of obstacles were overcome; incredible adventures were experienced; many lives were lost. And now the locomotive has succeeded the ox team—civilization has reached the City of the Holy Faith.—[*Denver Tribune*.]

THE DISCOVERY OF GOLD.

An Interesting Account from One Who Was in California at the Time.

[A. N. Hatch in Edgemont, Pa., Times.]

In looking over my note book the other day I came across something relating to the discovery of gold in California, which I thought might interest your readers, and therefore send it for your consideration. I was upon the ground shortly after the discovery, and was acquainted with the principal actors. The discovery took place Jan. 19, thirty-two years ago, and occurred in the following manner: Capt. Sutter was building a sawmill, and had employed two or three white men as well as a number of Indians. They had dug a race to the river and built the framework of the mill. In the evening they had turned the water into the race so as to sluice out the tail-race. In the morning one of the white men by the name of Jim Marshall went down into the tail-race in order to find out how much

dirt had been washed out. His attention was attracted to some shining lumps. Not knowing what they were he gathered up several of them and took them to his fellow-workmen for their inspection. One of these men had some knowledge of metals, and at once proceeded to test the nuggets. He procured some aquafortis, and after applying it pronounced it gold and no mistake. It was agreed to keep the discovery a secret, but Marshall was to inform Capt. Sutter, who was then at his fort some twenty miles distant. Marshall took several of the nuggets in a bag and started on foot to the fort. Of the interview, Capt. Sutter gives the following account: "Marshall reached my place about three o'clock in the afternoon. He seemed greatly agitated. He asked me to go into a private room as he had something to communicate. After we were in the room he asked me to lock the door. I felt uneasy, for the man looked wild. After I had locked the door, he desired me to place something over the key-hole. 'Now, Captain,' says he, 'do you think anyone can hear us?' He then pulled out his bag of precious metal, and emptying it upon the table, desired me to examine it, which I did, and pronounced it gold. Marshall immediately prepared to return. I told him to remain all night, and that I would go up with him. I could not persuade him to remain. The next morning I started on horseback, and several miles on my way I met Marshall coming out of the bushes, all wet, it having rained hard in the night. We traveled along together until we reached the saw mill, where we found all hands had quit work and gone to gold-hunting."

LODES, LEADS AND VEINS.

LAWRENCE.—The new machinery arrived at Bangor on Tuesday and has been transported to the mine.

CONSOLIDATED HAMPDEN.—The shaft has now reached a vertical depth of 138 feet and the work is being prosecuted with vigor. Mr. Thomas Cahill, the well known Superintendent, has taken charge of operations and in a brief time this promises to be the deepest shaft in the State.

THE JONES HILL MINE.—Last week we spoke briefly of the silver mine owned in part by Corinna parties, and promised that we would visit it and give our readers the benefit of our observations. Friday, in company with T. F. Hegarty and W. I. Wood, principal owners in the property, and Mr. Folsom of Boston, we visited this mine, which is located on Jones' Hill in Garland, near the Dexter line, and is one of the most slightly places to be found in this State, being on an elevation of about three hundred feet above the surrounding country and fifteen hundred feet above the level of the sea, and affords a fine view of villages, streams and ponds in Penobscot, Somerset and Piscataquis Counties. On this property are two shafts, one of which is ten feet deep, and the other about forty. In each shaft is a well defined vein of galena about eighteen inches wide, and from Prof. Stewart's description, is a true fissure vein. It has the wall rock and clay seam as described by the Professor as being sure indications of a fissure vein. On the dump are tons of quartz rock well mineralized, and if facilities for reducing it were at hand a handsome profit could be realized. One piece of quartz, weighing about one hundred and twenty-five pounds was taken out from near the surface, and will be sent to the Co.'s office in Boston. The principal owners in this property are Messrs. T. F. Hegarty and W. I. Wood of Corinna, F. O. Beal, A. H. Thaxter, W. J. Webb and Jacob Stern of Bangor. The last assay, made from surface ore by Thos. Cahill, gives a total of over \$160 per ton.—[*Corinna Herald*.]

BOSTON & BUCKSPORT.—Following is a list of officers of this company which was organized some two weeks since at Bucksport: President, James Emery; Vice-President, A. F. Page; Treasurer, R. H. Emery; Secretary, S. B. Warren; Directors, James Emery, A. F. Page, John F. Dorr, E. D. Green, E. P. Hill, J. M. Warren.

BOSTON SILVER.—The Boston Silver Mining Company is operating in the vicinity of Ellsworth Falls.

SWAN.—Timbering to the depth of forty feet has just been completed and sinking has again begun. The vein is nearly across the shaft and fine galena ore is being taken out in good quantities. The new shaft house is nearly completed and a boarding house will be put up the coming week. An ore house and whim will next be added to the works, and more men will be added as soon as these works are completed. President Adams and Secretary and Treasurer Bean of Bangor visited the works on Friday and propose substantial steam works as soon as practicable. **SUPR.**

FRENCHMAN'S BAY.—This shaft is being rapidly sunk and much credit is due to the foreman, Mr. Geo. A. Goodwin, who has timbered it in a substantial manner, being second to none in the State. These works show that great things are expected in the future. The gold, silver and copper vein in the shaft is about six feet wide and a cross-cut will soon be begun to the lately discovered silver vein six feet wide showing on the surface forty feet south of the shaft. This is a contact vein on the Franklin lead and fine galena is taken out without even a blast. The "West Brook" (so called) which flows within ten feet of the shaft will furnish power for all the works of both shafts. A copper vein has also been found west from the shaft. A limited number of Treasury shares are for sale at Secretary E. F. Robinson's store, Ellsworth, Me. Nothing but Treasury stock will be sold or delivered. **SUPR.**

ASHLEY.—Work is progressing as usual. The shaft is down 125 feet; the bottom is in fair blasting material. Cross-cutting will be commenced this week, and it is expected that the vein will be reached in about 12 feet. The company have decided to add to the present machinery at the mine an air compressor and drills as soon as possible. Two of the Bryer drills have already been ordered, and as soon as the proposed new machinery is placed in position some lively work may be expected at this mine. The prospects for future developments are quite encouraging.—[*Bulletin*.]

MILLBROOK.—Running day and night shifts as usual. Mr. Wm. Clapham has been engaged as night foreman of the mine, and sinking is progressing energetically with favorable results. The shaft has attained a depth of 95 feet, showing stringers of quartz containing good mineral; will cross-cut for vein as soon as the shaft has reached a depth of 100 feet, and it is expected that ore of a high grade will be encountered.—[*Bulletin*.]

MILTON.—The large boiler recently received from E. Hodge & Co., East Boston, is set up in a thorough and substantial manner, and connected with boiler No. 1. The large Centennial air tank, which has been inspected and admired by thousands of people during the Centennial Exposition, and is a marvel of strength and beauty, arrived here by steamer Mount Desert last Saturday, and is already in position, and can be connected with the Burleigh Compressor as soon as it arrives. The Burleigh Rock Drill Company are somewhat behind in turning out the compressor as soon as expected, but it will probably arrive here within a few days. Work in both shafts is progressing as rapidly as circumstances will permit. Everything on and about this property is being put in readiness for large operations, which will be commenced on an extensive scale the moment the shafts have attained the required depth. The small custom mill for the accommodation of all neighboring mines and mining companies who may desire to have the value of their ores ascertained, will be ready for work in about two weeks. The general indications for the future of the Milton have never been so promising nor given so much evidence that a mine of great value will be opened as at the present time.—[*Bulletin*.]

SULLIVAN.—Work in the various drifts and shafts is being pushed forward energetically. Drifting is progressing at the rate of 14 feet per week. Shaft No. 2 is down 90 feet; bottom

in good blasting ground. East and west drifts from Shaft No. 1, and winze from 60 foot level of Shaft No. 2 are in very rich ore, showing native and sulphurets of silver, and is almost entirely free of base metals. The foundation for mill is making good headway, and when the machinery arrives from Arlington, N. J., the mill will be erected with all possible speed, and the reduction of the rich ores now on the dumps will be commenced and those who have heretofore labored under the erroneous impression that the ores of this locality could not be profitably and successfully treated will be convinced in a short time that the ores can be treated advantageously and at small expense.—[*Bulletin*.]

McFARLAND.—New shaft house 24x36 feet up and boarded, whim house 24x25 feet, and wheel set. All will be completed and running in a few days. Work in the shaft is not interrupted and is now down forty-five feet. Vein widening and showing very good ore, a portion of which is fine looking gold bearing quartz.

GRANT.—The steam works are now in running order at the Grant, hoisting commenced on Monday and by Wednesday the shaft was clear of water. The shaft is now being lined and drilling will commence the last of the week. As there will be no further trouble with water the shaft can be sunk at the rate of 6 feet per week.

BLUE HILL CENTRAL.—The shaft has been timbered and sinking is now in progress. A depth of 38 feet has been reached.

TWIN LEAD.—Drifting is in progress, the drift is now in about 7 feet and it is expected that the ore body will soon be reached.

YOUNG HECLA.—The shaft is now about 65 feet in depth. The streak of silver ore has widened to five and one-half inches.

ATLANTIC.—It is now claimed that the Douglass ore channel has been cut in the tunnel and we have been shown some very good copper ore taken out.

DOUGLASS.—The machinery for the mill has arrived. The grounds of the company present a scene of much activity. Great interest is attached to the mill which will by the middle of the summer be in active operation. The ore in the bottom of the shaft is of a high grade. Prof. F. L. Bartlett, State Assayer, on a recent visit to the mine selected some samples which he has assayed with the following result: No. 1, 16 2-10 per cent copper; No. 2, 31 4-10 per cent copper; No. 3, 33 7-10 per cent copper.

DARLING.—At a recent meeting of the stockholders of the Darling Silver Mining Company, Dr. W. K. Knowles was elected Treasurer in place of Mr. Downes resigned, and Mr. J. Henry Smith was elected a Director.

NORTH CASTINE.—A recent assay of ore from this property by A. E. Barclay, the Bangor assayer, resulted as follows: Gold, \$3.60; silver, \$145.96; and lead, \$49.16; total, \$198.72. The work of development is progressing expeditiously. The company will probably be organized in a few days. In a communication descriptive of this property and which appeared in the *MINING JOURNAL* of last week we notice the name of Dr. W. K. Knowles failed to appear. This is doing unintentional injustice to the latter gentleman and we hasten to make correction. Dr. Knowles has from the first been prominently identified with this property and he and V. Darling, Esq., are the principal owners.

DEER ISLE.—Shaft has now reached a depth of 65 feet, and the ore continues to look as well as ever. The width of the vein is still a matter of conjecture as the foot-wall has not yet been found. Considerable native silver is found.

ISLAND CITY.—A Vinalhaven correspondent informs us that the shaft of the Island City is down 19 feet showing three veins of fine galena, main vein 5 inches, another 2 1-2 inches and the third 1 1-2 inches in width, and as all three of these veins are confined within a space of eight feet, the supposition is that

they will soon come together and form one vein. It is considered a valuable property.

ACTON CONSOLIDATED.—At the office of Mr. John S. Morris, 22 Exchange street, Portland, may be seen the results obtained from working a small lot of average ore from the Acton lode, at the Mass. Institute of Technology. Following is a copy of Prof. Richards' statement: *Mr. John S. Morris, 22 Exchange St., Portland, Me.*—Dear Sir: The sample of ore left by you two weeks ago, weighing 139 lbs., has been carefully worked, and yielded: Refined lead, 52½ lbs.; silver, 31,533 grammes; gold, .7077 grammes. These figures converted into values per ton are as follows: Lead, \$37.65; silver, \$32.30; gold, \$6.75; total \$76.70. I send you with this the metals we have extracted. I hope the work will prove satisfactory to you.

Respectfully yours,

R. H. RICHARDS, Prof. of Mining.

MAINE ACTON.—Mr. Howard P. Soule, a Nevada miner of considerable experience, has recently taken the Superintendency of the Maine Acton. Mr. Soule reports that the ore vein has been struck at a depth of 19 feet.

MINERAL HILL.—The work is being pushed and a whim is being introduced.

SHELBURNE.—The following relating to the Shelburne mine we clip from the *Portland Argus*: "Mr. J. M. Johnson, one of the old Comstock foremen, in company with C. A. Dyer and M. S. Gibson, two of the directors of the Shelburne mine in New Hampshire, returned yesterday from a visit to that mine. Mr. Johnson says it is one of the largest and most extensive fissure veins that ever came under his observation. It runs in one unbroken body for two miles in length, and on an average of 8 feet wide. The vein runs nearly east and west, with a depression of 55 degrees. There is a splendid water privilege, plenty of timber, and a good road leading to the mine, making it one of the finest pieces of mining property in the country. The vein carries a very heavy body of galena and silver. Mr. Johnson says the general appearance and formation of the country all point to a strictly mining belt, and when the Shelburne mine commences operations, the public will see some of the finest ore ever taken out in New England. Mr. Johnson says the word "immense" describes the mine. Some specimens of ore were brought home, and Prof. Bartlett offered one hundred dollars per ton for all that could be brought here equal to the specimens shown. The company propose to push matters, and develop the mine to its fullest extent."

OSHKOSH.—The Oshkosh is located on Columbian mountain, at the head of Silver creek, and is owned by the Oshkosh Mining Co. of Bangor, Me., its superintendent being Mr. Charles L. James. Three shafts have been sunk on the vein, aggregating about 70 feet in depth, one wall only being apparent, that being the north or hanging one upon which is a vein of quartz two feet in thickness, that is impregnated with galena and assays from 47 to 1100 ounces per ton in silver. The work at present going forward is sinking another shaft from the surface, a 50-foot contract having been let a few days ago, and it is the intention of the company to work the mine extensively during the coming summer. The company could not have secured a better man to represent them and to look after their interest here, than their present superintendent.—[*Georgetown (Col) Courier*.]

New Hampshire Mines.

A correspondent of the *Boston Globe* has recently visited the Gardner Mountain district and we copy his description of several of the prominent mines in that locality:

HAVILAND.—The Co. own half a mile upon the ore-channels, which are very clearly defined, the largest, called the Henry vein, being a magnificent out-cropping of copper, which can be traced for a long distance over the Haviland, Ammonoosuc and Grafton properties. Various cross-cuts and prospecting pits have been opened over the Haviland property, and have resulted in the discovery of any quantity of smaller leads of this ore. Two hundred feet to the north of the shaft, a large pit has been opened upon the croppings of the Henry vein and a

large quantity of magnificent ore lays strewn about, just as it has been thrown out by the blasting. I hammered about for some time in this excavation, and very readily found the foot wall, which seemed to be very clearly defined. It slopes to the southward, but, as I had no instrument with me, I cannot give you the dip with any degree of certainty, so I will not venture to hazard an opinion which might prove several degrees from the correct inclination. The shaft of the Haviland has now reached a depth of 240 feet, and has nearly 500 feet of levels running from it. Stepping upon the ladder that carries one beneath the cribbing, I began my descent, tightly grasping a tallow candle between my teeth, both for safety and comfort. A narrow ladder is bolted to the side of the shaft, which, by the by, is an inclined one, and upon its frail rounds gradually worked my way to the first level, seventy feet from the surface. At this point a cross-cut has been run to the eastward about thirty feet, but there it ends, as all the work is now being concentrated upon the lowest level. On to the ladder again and a good five minutes elapsed before the second or 170-foot level was attained. Here a 120-foot cross-cut is to be found, which extends seventy feet to the eastward and fifty feet to the westward. Here, as upon the seventy-foot level, work has been stopped, and, as I could now plainly distinguish the click of the hammers farther down in mother earth, I hastened to descend. Sixty feet were soon traversed and I was on the 230 foot level, the lowest in the mine. The shaft has been carried down some ten feet deeper, but this excavation is used as a sump, or well, to catch the water with which a mine must always be afflicted more or less. The west cut is now in 210 feet and already two ore channels have been cut through, and fifteen or twenty feet more, it is expected, will bring them to the Henry vein, which must prove a veritable bonanza of rich ore. The east drift is in now some fifty feet, and the ore-channel is expected to be encountered at any moment. One thing has been demonstrated most fully, and that is that the mountain is full of parallel veins of rich copper ore, which only remain to be tapped, when their rich yield of metal can be raised to the surface. The shaft of the Haviland is timbered in the most substantial manner, and the foot wall side of the shaft is provided with double skids, so that when one basket is rising to the surface the other is descending to the bottom of the pit. Hoisting at the time of my visit was furnished by a whim and horse-power, but a powerful boiler and engine were upon the ground waiting to raise the roof of the shaft-house another story, erect a solid and lofty gallows frame, set up the engine, and to construct a new set of skids in the shaft, besides cribbing it somewhat higher, and placing an iron speaking-tube from the top to the bottom of the shaft. The force of men is to be largely increased, and work will be driven with even greater rapidity than before, and from time to time, as occasion requires, the mining complement will be augmented by compressors, steam drills, etc. Everything about the mine seems indicative of work, and there cannot be the slightest doubt but that the company are pushing the work of development just as fast as circumstances will admit. The dump is an immense affair, being probably twenty-five or thirty feet in height, and containing thousands of tons of various grades of ore and a peculiar gray quartzite, which I was told assays a paying quantity of gold per ton. It can only be the matter of a few weeks, judging from present indications, before a large amount of rich ore will be taken from the mine each day. The officers of the company and its principal owners are prominent business gentlemen of Portland, and they propose to work the mine in an economical yet thoroughly systematic way. When the extent of the present development is considered—a shaft 240 feet deep, with nearly 500 feet of cross-cuts, etc., besides a considerable amount of ore upon the dump—it does seem as if some one had a grand opportunity. At all events, a few months will demonstrate beyond a doubt the value of this mine.

GRAFTON.—Adjoining the Haviland is the property of the Grafton Company, which has something like a quarter of a mile upon the ore-channels. The property as yet is not developed, only a few prospecting pits and cross-cuts having been opened. The work would have commenced some months since, but the severity of the weather was such as to make all labor a positive hardship to the workmen, who would necessarily have been obliged to work in the open air, and their sufferings would have been intense. It was deemed best therefore to wait until settled weather arrived before the property was opened, and active preparations are now being made to begin operations. The property has the same ore channels as the Haviland, the leads crossing the property with a northeasterly and southwesterly trend, and it is thought that the work of development will open a number of rich leads not yet discovered, but which are believed to exist in the mountain's rocky depths.

AMMONOOSUC.—The next property is that of the Ammonoosuc Company, which has about the same territory as the Graf-

ton, and the same length upon the ore-channels. The work of sinking, which was necessarily postponed during the winter months, has been resumed and good progress is being made. A lengthy cross-cut, perhaps 50 feet in length, was opened, which revealed the vein, and then the workmen began sinking upon the side of the hill where the croppings were quite rich. This property, as in the Grafton and Haviland, is intersected by the ore bodies, and only depth and cross-cuts are required, so mining experts say, to tap all the veins. As it is, the shaft is growing deeper and deeper with each day, and considerable ore is being taken out. A neat blacksmith shop is upon the ground, and I have little doubt but that the Ammonoosuc will speak for itself ere many months. Now, a few more words and I will conclude. It seems to your correspondent that this is a magnificent country for mining, and that there should be no reason why the mines should fail to pay well. The region is easy of access. It is well watered, and concentrating mills can be made to run by water power. Labor and material are cheap, and, in fact, there seems to be no earthly reason if the mines are permanent, and the Vershire mine at Ely is an example, why the Gardner Mountain mining district should not soon assume a foremost position among the mining districts of the country. There are other mines in operation here—the Pad-dock, Quint, Gardner Mountain, etc.,—but I have no space for them in this letter, and they must wait for some future visit.

Nuggets.

Surveys are being made for a railroad from Bucksport to Blue Hill.

Prospecting is in progress on several properties in the town of Hermon.

Old Orchard Beach is to have a daily paper during the summer season.

A large cotton mill is to be erected in Saco and another large one in Biddeford the present summer.

We are in receipt of a map of the Acton mining district published by the Lebanon Acton Silver Mining Company.

The Current issue of the Sullivan *Bulletin* contains Prof. Stewart's report upon the property of the Golden Circle Mining and Milling Company.

Herbert M. Heath, Esq., of Augusta, has secured an extensive tract of mineral land in Washington county. The surface showings are said to be fine.

Dr. Hodgkins, of Ellsworth, has recently been exhibiting in Portland a large and handsome specimen of copper ore from one of his properties in Egypt District in Hancock.

Dr. A. C. Hamlin, of this city, has recently sent to Yale College some very handsome specimens of copper ore from the Douglass mine at Blue Hill and tin ore from the Maine Tin mine at Winslow.

Mr. E. L. French of Exeter has shown us some fine specimens of galena from that town, taken from the surface of a well defined lead which he has traced for some distance. It is well worth investigating.

On a recent visit to Boston one of the editors of the MINING JOURNAL saw on exhibition in the office of the Ellsworth Silver Mining Company some very handsome ore that did not come from the mine in Ellsworth.

Our attention has just been called to an error in the card of the Ellsworth Assay Office, on the front page of this issue, which was discovered too late to remedy. The price for a gold, silver and copper assay should be \$5.00 instead of \$2.50.

A large and handsome map of the Consolidated Hampden property showing the several veins has recently been made by Mr. Fred H. Coombs, the well known civil engineer, and the excellence of the work reflects great credit upon Mr. Coombs.

E. J. Swan of Franklin and W. H. Grant of Waltham have just secured what they call the bonanza of Maine, at Rogers' Point, Jonesport. It is said to be a very fine silver and copper vein six feet wide and a mile in length. Work upon the property will commence at once.

Kiff & Martin have sold 6-16 of the Northern Extension of

the Lincolnville Gold and Silver Mine to Mr. Fred O. Young and others. Steps will be taken immediately to develop the property. The prospects are very flattering, as galena has been found in the float rock. The Lincolnville Company are uncovering their vein toward this, and find as they go north better showing than where they first opened. An assay has been made from the Lincolnville Mine, giving \$262.87 to the ton, gold and silver.—[*Rockland Opinion*.]

It has been said that there were no gold mines in Massachusetts, but this is not the fact. The town of Ashburnham seems to be the favored location, and Mr. H. B. Wyman, of Boston, is the party who had the good fortune to find it, but his extreme modesty has prevented its becoming known to any extent. The first mine discovered by him on the Houston estate has been worked for the last two years, showing good working ore assaying at the depth of fifteen feet, \$40 per ton. Another mine in this locality is now being put in operation, showing the ore to assay upwards of \$40 for surface rock. This mine is known as the Harris Mine.—[*Economist*.]

New Companies.

Name of Company.	Location.	Date.	Capital.
Maine Tin Mining Co.,	Bangor,	May 8,	\$500,000
Lincolnville Gold and Silver Mining Co.,	Lincolnville,	May 8,	500,000
Prince William Antimony Co.,	Portland,	May 8,	250,000
Harris Gold Mining Co.,	Portland,	May 8,	500,000
Beacon Light Mica Co.,	Portland,	May 8,	100,000
Richmond Silver Mining Co.,	Portland,	May 10,	500,000
Kronberg Mineral Association,	Portland,	May 10,	40,000
Shelburne Mining Co.,	Portland,	May 10,	125,000
Highlands Copper Mining Co.,	Blue Hill,	May 11,	500,000
Narraguagus Gold and Silver Mining Co.,	Cherryfield,	May 11,	400,000
Adrie Consolidated Gold and Silver Mining Co.,	Saco,	May 11,	200,000
Castine Copper and Silver Mining Co.,	Castine,	May 12,	500,000
Griffin Gold, Silver and Copper Mining Co.,	Portland,	May 13,	500,000

With the opening of summer a large number of pleasure seekers will swarm to the sea side resorts.

Metal Market.

Following are the quotations in New York, Tuesday, May 18:

Silver Bullion.....	1.14%	Zinc.....	7%
Gold Bullion.....	1.00%	Spelter.....	6
Pig Lead.....	4%	Lake Copper (ingots).....	19
Tin (Straits).....	17	Antimony.....	17%

Bar Silver was quoted in London to-day at 53 1-8d per ounce, English standard.

The Stock Market.

The bears still control the stock market, but just now they seem to be somewhat undecided whether they shall carry the decline still further or not. At all events the present condition of things cannot last for any great length of time, and we are advised by those who are in a position to know that there is likely to be a general advance in stocks of all kinds very soon. Holders of reliable Maine mining stocks take courage, and keep a stiff upper lip.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MAY 19, 1893.

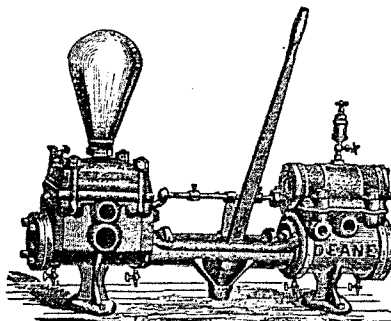
NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Aztac.....	15	15 1/2	15	15 1/2	15	15 1/2	15	15 1/2	15	15 1/2	15	15 1/2
Atlantic L. S.....	15	15 1/2	15	15 1/2	15	15 1/2	15	15 1/2	15	15 1/2	15	15 1/2
Alouez.....	21	23	22	22 1/2	24	24	21	25	19	19	19	25
B. Antimony.....	4 1/2	5	4 1/2	5	4 1/2	5	4 1/2	5	4 1/2	5	4 1/2	5
Blue Hill Copper.....	230	230	230	230	227	227	227	220	225	225	223	223
Calumet & Hecla.....	1 1/2	2	1 1/2	2	1	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Catalpa.....	6	6	5	6 1/2	5	6	5	6	6	6	6	6
Copper Falls.....	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2
Douglass.....	13	12 1/2	13	12 1/2	12 1/2	12 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
Duncan Silver.....	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Franklin.....	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Huron.....	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Harshaw.....	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Mesnard.....	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
National.....	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Osceola.....	30	31 1/2	33	33	31	31	31	31	31	31	31	31
Pewabic (new stock).....	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Phoenix.....	24 1/2	23 1/2	24	23 1/2	24	23 1/2	23 1/2	23 1/2	23 1/2	23 1/2	23 1/2	23 1/2
Quincy.....	12	14	14	12 1/2	13	12	15	12	12	12	12	12
Ridge.....	1	2	1	2	1	2	1	2	1	2	1	2
Silver Islet.....	6	8	6	6	6	6	6	6	6	6	6	6
Star.....	6	8	6	6	6	6	6	6	6	6	6	6
Sullivan.....	4	4	4	4	4	4	4	4	4	4	4	4
Waukeag.....	4	4	4	4	4	4	4	4	4	4	4	4

HENRY McLAUGHLIN, Storage and Commission Warehouse, FRONT STREET, - BANGOR, ME.

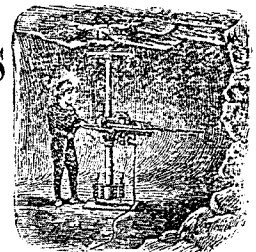
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ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.

President, Hon. F. M. Laughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Laughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.

President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.

President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund \$6,000 Shares.

President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.

Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7½ Lisbon St., Lewiston.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, D. H. Bisbee, Camden; Treasurer, and Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterna.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.

Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.

Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CONSOLIDATED ACTON SILVER MINING CO.
On the Acton Lode, Acton, Me.

Capital, \$1,200,000; 240,000 Shares. Par value, \$5. Non-assessable.
President, George P. Wescott; Vice President, John S. Morris; Secretary, Charles D. Clark; Treasurer, A. A. Dennett. Directors—G. P. Wescott, J. S. Morris, W. F. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Furguson Haines, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.

The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.
Offices—22 Exchange St., Portland, Me., and 28 Congress St., Boston, Mass.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.

Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. March, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. March, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. March, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.

Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPTON SILVER MINING CO.,
Hampton, Me. Incorporated by special act, February, 1880.

Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Laughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Laughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
THOMAS CAHILL, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.

Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. E. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Hucksins, James Nealey, Jr., Chas. E. Field.

DRIGO SILVER MINING CO.,
Acton, Me. Incorporated, Jan. 1879.

Capital, \$500,000; Shares \$5 each.
President, I. F. Cloutman, Farmington, N. H.; Treasurer, Elerson O. Curtis, Farmington, N. H.; Secretary, E. H. Hayes, N. Lebanon, Me.; Directors, I. F. Cloutman, J. O. Nute, John M. Berry, Alonzo Nute, Elerson O. Curtis, Geo. A. Jones, Rufus B. Foss.
W. A. GOULD, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.

Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hinckley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAAC S. GRANT, Supt.

EDGEMOGGIN SILVER MINING COMPANY
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.

Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McCLINTOCK & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.

Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardiner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.

Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.

Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.

Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.

Capital, \$500,000; Shares, \$5 each.
President, A. E. Herriek, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herriek, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Lafan, Jeremiah Wooster.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.

Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.
Office, No. 1 Pemberton Square, Room 4, Boston.
BROWNELL GRANGER, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.

Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.

President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. G. Hayford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Howe, Jackson; John H. Gordon, M. Chase, J. S. Watts, T. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.

Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.

Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Dutton, Blue Hill; J. S. Condon, Orland.
TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.

President, Wm. H. Darling, of Blue Hill; Vice President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
GEO. D. HOLT, Supt.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.

Office—29 Exchange, corner Milk Street, Portland, Me.

Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. F. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. F. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.

President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Swift, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.

President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY,

Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.

President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.

President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.

Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAUM, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.
F. W. CROSBY, Supt.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 shares.

Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer of Biddeford.
HOWARD P. SOULE, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.

President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.

Capital, \$500,000. Shares, \$5.00 each.

President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.
C. E. LANE, Brooks; Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.

Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.

President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.

Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.

Office, No. 43 Milk Street, Boston; Rooms F and G, 3d floor.
President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Duncklee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Ly-sander Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. In Corp, July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,

Blue Hill, Me. Incorporated, Feb., 1880
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.

President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.
WILKIE DARLING, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.

Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.

President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Bur-rin, E. C. Nichols.
E. J. SWAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.

President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orlington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROURKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.

Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.

President, Geo. B. Brown, Boston; Secretary, B. P. Tilden, Sullivan; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.
SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.

Capital, \$500,000; Shares \$5 each.

President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.

President—David Bugbee, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—David Bugbee, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.

President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.

Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.

President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me.

Office, Ellsworth, Me. Incorporated, Feb., 1880
Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, 32,000 Shares.

President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

The Acton

CONSOLIDATED

Silver Mining and Milling

COMPANY,

Offers to its Stockholders and the public a limited number of shares of its treasury stock

At \$1.50 per Share.

The above consolidation embraces the proper ties of the Acton, Portland-Acton, Boston-Acton and Forest City Silver Mining Companies, representing 2,000 feet of the celebrated Acton lode, pronounced by all experts to be a true fissure vein highly mineralized throughout. For the more economical and expeditious working of the mine the consolidation was formed, the whole is now under the supervision of an experienced Nevada miner, and the work of exploration at greater depth will be vigorously prosecuted.

This Company have all necessary tools, etc., for sinking the shaft 500 feet; suitable buildings, such as shaft-house, ore-house, blacksmith-shop and boarding-house. The Company have a large quantity of ore now ready for concentrating, and will work the Old Acton Shaft, which is now down 100 feet on the vein. The ore is steadily improving as depth is attained. The management are confident that the Acton Consolidated will at no distant day rank among the foremost bullion-producing mines of the country. Every means will be taken to conduct the work honestly and economically.

Feeling confident of success the management offer the public a limited number of shares at \$1.50 each—to create a permanent fund for the working of the mine—that the work may proceed vigorously and produce gratifying results to the stockholders.

The Company has 76,000 shares in the treasury—par value, \$5 each. The officers are well-known business men of Portland and vicinity.

Subscriptions will be received at the office of the Company, No. 22 Exchange Street, Portland, Me.

A. A. DENNETT,

Treas. Acton Consolidated Silver

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M. and M. Co.

HIGHLANDS

Copper Mining Co.

Offices—EAST BLUE HILL, ME.

Organized, 1880. Mines at Penobscot, Me.
Capital, \$500,000. Shares, \$5 each.

Treasury Fund.....\$150,000

President—FINDLEY J. WATT, East Blue Hill.

Secretary—FRANK H. BINDER, East Blue Hill.

Treasurer—JAMES WATT, Philadelphia.

Directors—James Watt, Christopher Binder, Joseph

H. Johnson, Findley J. Watt, Frank H. Binder, James

W. Snow, J. Wesley Leach.

Mines were examined and approved by Prof. Mont-

troville W. Dickeson.

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Geo. H. Marquis, Portland, Me.

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Bangor and Bluehill.

TWO TRIPS PER WEEK!

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Leaves Bangor every TUESDAY and THURSDAY at 8 A. M., for Bluehill, touching Hampden at 8:30; Winterport, 9:30; Bucksport, 10; Sandy Point, 10:30; Fort Point, 11; Castine, 12; connecting with boat to Islesboro, arriving at Deer Isle at 2:00; Sedgwick at 2:30, and Bluehill at 4:30 P. M. Returning, leaves Bluehill every WEDNESDAY and FRIDAY at 7:30 A. M., Sedgwick at 10:00, Deer Isle at 10:30; Castine at 12:00, noon, connecting with steamer for Islesboro and Belfast; Fort Point at 1:00; Sandy Point at 1:30; Bucksport at 2:00, arriving in Bangor at 4:00 P. M.

BAR HARBOR AND S. W. HARBOR.

Steamer City of Bangor

Leaves Bangor every SATURDAY at 8 A. M. for Bar Harbor, touching at all landings except Bluehill, as above, making three trips per week between Bangor, Castine, Islesboro, Deer Isle and Sedgwick.

Returning, leaves Bar Harbor every MONDAY at 8:30; S. W. Harbor at 8, arriving in Bangor at 4 A. M. FRANK D. PULLEN, Agent.

Bangor, May 4.

Bucksport & Bangor Railroad



CHANGE OF TIME, MAY. 3d, 1880.

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.35	1.30 7.20
Arrive in Bucksport,	8.45	2.45 8.30

Direct connection is made with the two through trains on Maine Central via E. & N. A. Railway; also with Bangor & Piscataquis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arrival of morning train from Bangor, reaching Blue Hill at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection east, leave Bucksport 1.00 P. M.

L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this line will leave India Wharf, Boston, and Franklin Wharf, Portland, every evening (Sundays excepted) at 7 o'clock.

CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West.

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JOHN M. HALE & CO.

Ellsworth, March 2, 1880.

BUCKSPORT AND BLUE HILL STAGE LINE.

The stage leaves Bucksport daily, Sundays excepted, at 1 P. M. for Blue Hill and Sedgwick. Returning, leaves Blue Hill, daily, Sundays excepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to Blue Hill, and by the Blue Hill driver through to Bangor.

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Central Bridge, Bangor, Me.

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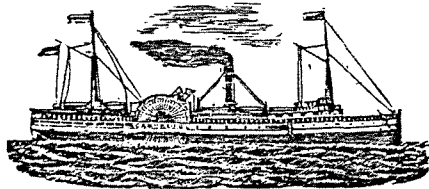
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Capt. Otis Ingraham, | Capt. W. R. Rolx.

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alternately every MONDAY, TUESDAY, THURSDAY and FRIDAY at 5:00 P. M.

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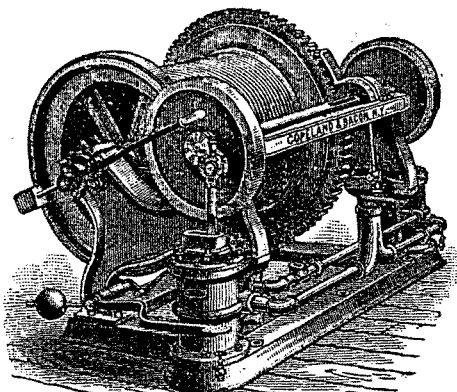
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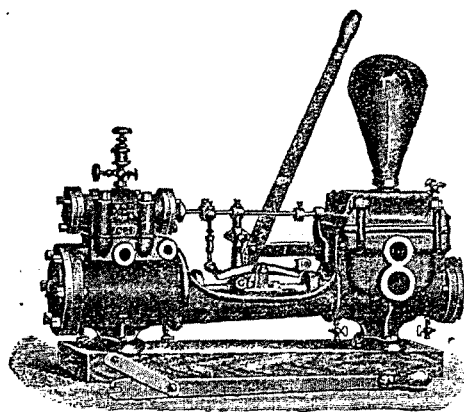
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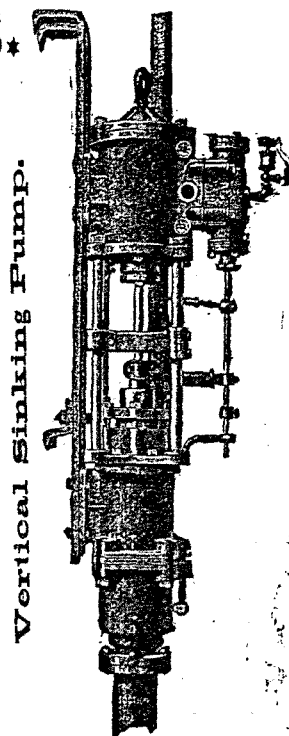
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DEVOTED TO THE MINING INTERESTS OF THE STATE OF MAINE.

[Entered as second-class mail matter.]

Vol. I. No. 22.

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 P. O. address, 304 Commercial St., Portland, Me.
 Have had large experience as a practical miner, prospector and engineer. References, by permission—Prof. Edwin A. Curley, Deadwood, Dakota; Hon. James Bailey, Josiah Burleigh, W. H. Sanborn, N. M. Perkins & Co., Portland, Me.; Herrick & Byard, Sedgewick, Me.

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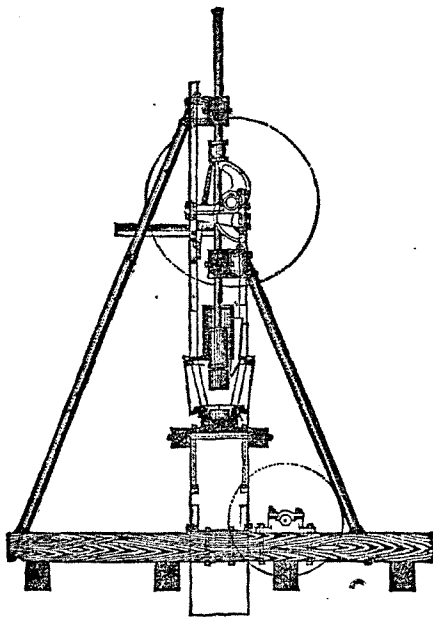
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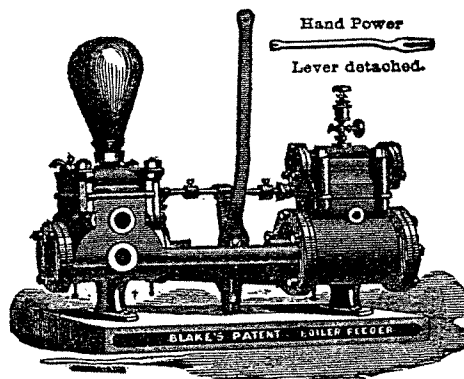
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W. F. BLANDING,) EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MAY 28, 1880.

THE DEPRESSION.

The depression in stocks is one of the principal themes of discussion among mining men. The decline of values has been wonderful during the past few weeks and mining stocks in common with stocks of all kinds have taken a fearful tumble. In a new mining region a severe depression always has a marked effect. In old camps these ups and downs are expected and when everything is down mining men do not lose courage but abide their time, knowing there is a good season coming.

The mining industry in Maine is now passing through its trying period. With a depressed stock market there is no active demand for mining stocks and many investors who expected to make a fortune in a few days have not yet had their expectations realized and now offer stock at a great sacrifice. During the past winter speculation was rampant. Men in their enthusiasm believed that every showing of mineral was a bonanza and that it was only necessary to form a company and sink a shaft a few feet before dividends could be declared.

The depression is the result of natural causes. It was apparent to every one that there must be a reaction from the over speculation which has been dominant. The reaction would not have arrived as early or been as severe if it had not been for outside causes. Stocks of all kind centre to a greater or less extent around New York City and with depression hovering over the metropolis there can be no healthy boom elsewhere.

The experiences of the present will be of great value in the developments of the future. The depression will be fruitful of much good. The people are learning that mining is a business that cannot be mastered in a day, that long experience is necessary to prosecute it successfully and that a mint of money must be expended before dividends appear. The golden anticipations of the enthusiastic treasure hunter

may not have been realized but our real mining men were never as sanguine in regard to the future as they are to-day. Through lack of funds the development of some very valuable properties may be delayed for a time but there are many companies organized on so substantial a basis that months of depression cannot effect their work.

The representative mines are prosecuting mining with energy, and are making a handsomer showing than ever before. It is simply a question of time before dividends will put in an appearance. The value of our mineral deposits is assured and recent developments demonstrate that they are of wonderful extent and richness. New discoveries are being made almost daily and the mineral possibilities of the State of Maine seem unlimited.

[From the Boston Herald.]

Our New England Mines.

There seems to be a serious depression in our New England mining interests just at the time when it should not exist; but it might have been and was foretold as sure to come sooner or later, and is the fruit of causes to which the *Herald* has more than once alluded. There have been too many companies started. The mere discovery of mineral-bearing quartz, and assays of a few specimens from within half a dozen feet of the surface, do not afford sufficient grounds for organizing a stock company, or for putting forth glowing advertisements filled with boasts and predictions, or for selling shares to any person, knowing or ignorant, who can command a few dollars. Yet that is what has been too frequently done in Maine. There the companies have been capitalized at a high figure and the stock sold at a price which, to the inexperienced, seemed almost giving it away. "Getting in on the ground floor had a wonderful fascination before it had been tried, but, in too many cases, the ground floor, when a holder of stock wants to realize upon it, is found to be down cellar. There are, so far as we know, hardly any companies in Maine which have been organized by deliberately dishonest men, but there are too many which were started without the slightest justification in reason, simply as a speculation and in the hope that something might be discovered on their property or some other which would make the affair result profitably.

The people of Maine have made this spring a most valuable discovery. They have found that a hole in the ground is not a mine; that a man who can dig a well or blast a ledge or do submarine work is not a miner; that assays are deceptive, and skilled miners from California pan out no better than assays. They have found that money must be put down before any is taken up, and that the business upon which they have entered is one which may yield dazzling returns to a few, but for the many only promises the same rewards as any other enterprise soberly entered upon, judiciously prosecuted and patiently carried through to its conclusion. In short, that mining is business and not fun—business which requires capital, experience and time before results are reached. This was not known last year. Then it was thought starting a new company meant sudden wealth to all fortunate enough to be interested. The discovery that this was a

mistake is a fortunate one for Maine. But it has not been made without some unpleasant feelings.

As we said, this seems to be a period of depression. Stocks are selling for half the price they brought a few months ago, and the decline is not confined to the weak and unpromising enterprises, but reaches the oldest, best developed and most worthy of them all. There is no reason for this beyond the fact that prices were too high before, considering the work which had been done. There is no ground for discouragement on the part of those who have a really good thing. Why should the holder of an interest in the Douglass, with its \$75,000 or \$100,000 worth of merchantable ore already brought to the surface, be dejected because stocks go down in the market? And he must know, too, that not all the published quotations are trustworthy, since speculators manipulate them.

What is needed now is courage and persistence. The tendencies are all favorable. The leading men interested have been learning from experience, and their action of late has shown a much more thorough comprehension of the work before them. The consolidation of the Acton mines was a notable example of this. One or two companies, which never ought to have been formed, have quietly given up the ghost. A few others will do the same thing. Then the strong, well-managed, well-backed and well-founded enterprises will come to the front, and the business will prosper. It will take time, and money, and faith, but it would be shameful not to give these on such showing as the work already done in the Pine Tree State has brought forth. Having learned that a prospecting hole is not a bonanza, and all the incidental points which the last year has taught, let the Maine miners take courage and go ahead.

Personals.

W. D. LEWIS, Esq., of Boston, recently visited the Sul-livan mines.

PROF. W. F. STEWART returned to this city from Blue Hill on Monday last.

HON. F. M. LAUGHTON, President of the Atlantic, is passing the week in Boston.

E. C. NICHOLS, Esq., has returned to Bangor after a trip to the Oshkosh mine in Colorado.

DR. EALS, a well known English geologist, visited the North Castine mine during the past week.

COL. I. S. BANGS, President of the Maine Tin Mining Company, was in the city on Wednesday last.

MR. E. J. SWAN, of Franklin, Supt. of the Swan and Frenchman's Bay mines, is on a visit with his family to Boston and New York.

HENRY EMERY, who during the past winter was associated with his brother, ISAIAH S. EMERY, at the Maine Mining Exchange in this city, died in Boston on Wednesday last.

A new preparation, made of 100 parts of copper, 17 of pure tin, 6 of manganese, 9 of common tartar, 3.60 of ammonia, and 1.60 of chalk, forms, it is said, an excellent imitation of gold, from which it can only be distinguished by the difference in weight. This metal can be worked almost as thin as gold leaf.—[*Design and Work.*]

Dips, Spurs and Angles.

THE GUNNISON.

To go, or not to go, that is the question :
Whether 'tis wiser in the honest miner
To work persistently our fissure veins,
Or load a burro and abequatulate,
And by migrating, quit them—to go—to skip ;
That's all,—and by vamping say he strikes
The trail that leads to wealth and fills his purse
With glittering lucre : 'tis a consummation
Too gorgeous to expect. To go—to skip—
To toil—perchance to fall ; ay, there's the rub.
For in that untried field what woes may come
When he has shuffled off the last red cent ?
What man would pay the generous royalty,
Or bear the pangs of minimum assays,
When he himself might his own fortune make
With pick and shovel. Who would these trials bear,
To toil and wrestle with a doubtful lease,
But that the fear of running out of funds
Before he strikes the contact, curbs his will ;
And makes him rather work the streak he has
Than tackle one that may be twice as lean.
Experience makes philosophers of all ;
And oft a little wholesome hesitation
Bears fairer fruits than reckless resolution.
Thus enterprises needing scads and silex
Are busted in the bud. Soft, you know,
Angelic reader. Nymph of the hush-house table
Be all my wants remembered.

—[*Colorado Miner.*]

Cats have no fixed political belief. They are usually on the fence.

Miners delight in picking a "pocket."—[*Cincinnati Commercial.*]

Our Divine pattern spent thirty years in seclusion, three in public.—[*Emerson.*]

"Oh, could I but stand where Moses stood, and view the prospects ore!" sings the dabbler in mining securities.—[*Exchange.*]

A Philadelphia brute said he could not afford to give his young wife an Easter bonnet, and when she began to weep, he calmly replied : "That's not the first financial cry, sis, that I have lived through?"

The following Michigan mines report for the last month as follows : Calumet and Hecla, 1631 tons, 1185 lbs ; Quincy, 180 tons 920 lbs ; Osceola, 166 tons 820 lbs ; Franklin, 140 tons 710 lbs ; Pewabic, 30 tons.

A mineral paint mine has been found near Deadwood. The newspaper men there will probably utilize it to give a gorgeous coloring to their reports on the resources of the Black Hills.—[*Wall St. Daily News.*]

If life be a battle, how mad must he be who fails to arm himself for the contest ! If life be a storm, how infatuated is he who sleeps while his bark is driven amid unknown waters ! If life be a pilgrimage, how unwise is he who strays from the right road, nor seeks to return till the twilight shadows gather around his pathway !

The decrease of the public debt during April was \$12,077,070 ; cash in the Treasury, \$190,464,393 ; gold certificates, \$8,230,600 ; silver certificates, \$12,043,720 ; certificates of deposit outstanding, \$8,760,000 ; refunding certificates, \$1,524,950 ; legal tenders outstanding, \$364,581,046 ; fractional currency outstanding, \$15,604,587.

The Chinese utilize almost everything that comes along. This was strikingly illustrated yesterday during the gale. While boulders as big as pumpkins were flying through the air and water pipes were being ripped out of the ground, an old Chinaman, with spectacles on his nose, was observed in the eastern part of the town seated on a knoll calmly flying his kite—an iron shutter with a log-chain for a tail.—[*Virginia Enterprise.*]

The highest mine in the United States, and probably in the world, is the Present Help, on Mount Lincoln, in the main range of the Rocky Mountains, Park County, Colorado. Mount Lincoln has an altitude of 14,297 feet. The Present Help boarding house, built alongside of the main

drift, is about two hundred yards away from the summit of the mountain, and 140 feet lower down. This leaves it 14,157 feet above the sea level.

William Wilson, a butcher at Fort McLeod, recently killed an ox whose stomach was found to contain five or six dollars' worth of fine gold, mixed with sand. The ox was evidently a good prospector and doubtless found pay in the grass roots. The singular event created a decided stir at Fort McLeod, and a number of parties have stampeded in the hope that they may be able to find and jump the dead bovine's claim before his heirs intermediate.—[*Helena (Montana) Independent*.

The Virginia *Enterprise* says that a few days since a wide-awake and lively young lady began exercising her wit upon a gentleman friend who owned to have purchased a mine. "I want a position in your mine," said she—"come now, hire me for Superintendent." "I am sorry I can't oblige you," said the gentleman, "as I have engaged a Superintendent. However, I don't know but I may be able to find a place for you." "O, can you! What is it?" "Well; I might make you shift boss."

A Southern gentleman has recently married Miss Lizzie Dollar. If he husbands his fortune well he ought never to be without a dollar in his house.—*Rome Sentinel*. Wrong again. After he married her she hadn't a dollar to her name.—*New Haven Register*. But she is probably still worth her face value, and the time will come when she will be up to par with at least half a dollar in her arms, and in time the young one will tell of the dollar of his daddy.—*Boston Globe*. Yes; and strange to say, the daddy as well as the dollar will become a legal tender.

There are now three mines in Gold Hill which have reached the 3000 level, and of these two are over 3000 feet in perpendicular depth. The Belcher last December sunk its sump 34 feet on the slope below that level. The Yellow Jacket has reached the 3000 level with its perpendicular shaft, which is now the deepest straight hole in the ground on the continent. As soon as the diamond drill determines that no water lies below the present workings, the shaft will be sunk 66 feet further and a sump then made. It will then be the deepest mine in America. Its 3066 level will be even with the 3000 level of Belcher and Crown Point.—[*Stock Report*.

An examination of the statistics of the iron interest of the United States, shows a marked increase in the activity of that industry in all its branches within the last seven or eight months. Nearly 700 furnaces, with an annual capacity of 6,500,000 of net tons of pig iron; 362 rolling mills and steel works completed, and 10 in process of building, capable of a yearly production of 4,000,000 tons in finished iron; rail mills with a capacity of 2,150,000 net tons of heavy rails; Bessemer converters, completed and under way, which can turn out 1,700,000 in ingots; these, with the long list of other items speak volumes for the industrial growth of the country in this direction.

A neat little story, says the New York *Sun*, is told about the way in which Jay Gould makes use of the few social opportunities he enjoys. Being invited to a private dinner upon his recent return from the West, he declared in a post-grandial effusion to the dozen or more gentlemen present that he had more money than he could possibly find use for, and that the great object of his life henceforth would be to improve the great consolidated concerns which he now controls and to place them on the basis of solid dividend-paying securities. He suggested that the Union Pacific would be the first to benefit by the new consolidation arrangements. Upon hearing this an old gentleman present went next morning to his broker and bought a thousand shares of the stock at 93 and a fraction. He had to sell it out a few days later at 88.

How Tombstone, Arizona, Received Its Queer Title.

What's in a name? A good deal, we are told; and how came Tombstone, Arizona, to have such a name? It was not borrowed or stolen from any other place on the globe, nor ever suggested by novel or gazetteer. The story goes, and it is true, that two young men, brothers, when about to start from Tucson on a prospecting tour into the Dragoon Mountains, Sonora, were advised to give up the undertaking, for if they persisted they would find neither mine nor fortune, but their "tombstones" instead. The boys bravely bid good bye to their friends, though warned that they would never return. They followed the blind trail, until they came to the plain that is now called Tombstone, and made their camp. On looking about, they saw a ledge of ore cropping out several feet, all marked rich with precious metals. "We have found our tombstones," they exclaimed and no other name would do to designate the camp. The town has adopted the name, which, if not poetical, is certainly original. A valuable tombstone, too, it must be confessed, for the Schiefflin Brothers recently sold their half interest in the mine for \$1,000,000 to parties in Boston and Philadelphia. Now that so many mines are located in the district, the first discovery is known at present as the "Tough Nut."—[*Ruby Hill (Nev.) Mining News*.

Charcoal.

Charcoal, laid flat while cold on a burn, causes the pain to abate immediately; by leaving it on for an hour the burn seems almost healed when the burn is superficial. And charcoal is valuable for many other purposes. Tainted meat, surrounded with it, is sweetened; strewn over heaps of decomposed pelts, or over dead animals, it prevents any unpleasant odor. Foul water is purified by it. It is a great disinfectant, and sweetens offensive air if placed in shallow trays around apartments. It is so very porous in its "minute interior," it absorbs and condenses gases most rapidly. One cubic inch of fresh charcoal will absorb nearly one hundred inches of gaseous ammonia. Charcoal forms an unrivaled poultice for malignant wounds and sores, often corroding away dead flesh, reducing it to one quarter in six hours. In cases of what we call proud flesh it is invaluable. I have seen mortification arrested by it. It gives no disagreeable odor, corrodes no metal, hurts no texture, injures no color, is a simple and safe sweetener and disinfectant. A teaspoonful of charcoal, in half a glass of water, often relieves a sick headache; it absorbs the gases and relieves the distended stomach pressing against the nerves, which extend from the stomach to the head. Charcoal absorbs a hundred times its weight of gas or wind in the stomach or bowels, and in this way it purifies the breath. It often relieves constipation, pain or heartburn.

GEOLOGICAL REPORT,

Upon the Property of the Appleton Mining and Smelting Company by Prof. C. H. Hitchcock, Geologist.

To the President and Directors of Appleton Mining and Smelting Company:

GENTLEMEN—The following is my report upon your mining property in the town of Appleton, Me., which I examined upon the 15th inst.: The location is about two miles southeast from the village, on the road to Rockland. It is eleven miles from Camden, sixteen from Belfast and fourteen from Rockland, over good roads. There are wharves at each of these towns, rendering your location convenient of access and from which the products can be easily shipped to any part of the world. I understand you own seven acres of land in fee simple, and that the northeasterly course of the veins will give you a distance of 700 feet in length upon the lot. The land is essentially level, but not wet, as

there is a long descending slope to the west immediately adjoining.

The rock is mica schist of the same age though less silicious with the Blue Hill copper country; the rock and veins are precisely similar to what I saw upon the land of the Blue Hill Copper Mining Company less than a year since. The formation is what geologists call Huronian, the same age with the copper bearing series of Lake Superior. In my second report upon the Geology of Maine, this band of rock is represented as extending from Union to Belfast, bounded on both sides by gneisses and mica schists.

I find three bands of rock which are mineralized. The middle one is twenty feet wide with strike about N. E. and S. W. and dips 70 to 75 degrees S. E., and upon this the shaft is situated. Only a few yards east from the carriage road, a second ferruginous band crosses the road, while the third lies to the east of the shaft. The lines of separation at the walls between the mineralized belt and the adjacent rocks are strongly marked. The shaft is about ten feet square and down a little more than 45 feet. The vein matter seems to be largely silicious with argillaceous and hornblende intermixture, having the yellow sulphuret of copper and magnetic iron pyrites disseminated throughout.

Wherever jantal seams cross the rock the copper ore is concentrated in plates. The whole mine is traversed by quartz veins carrying crystals of tourmaline and garnets, and the copper then shows itself in bunches in the quartz. The excavation does not touch either of the walls of the mineralized belt. A vein of copper at the bottom made it clear that it had increased in abundance over that mined at a higher level. Three piles of ore and rock are situated close to the opening. I estimated that there were 75 tons of two per cent. copper ore in the two piles specially saved and more of nearly as good quality in the rock heap which had not been saved. These ores although of low grade can be concentrated by machinery to a fifteen or twenty per cent. valuation and thus rendered valuable for shipment or smelting. As a rule those mines which yield the low grade ores are the most constant in their returns and therefore the safest for investment.

After reaching a depth of sixty feet you may find it best to further test the quantity of ore present in the vein, by drifting to both walls and along the course of the vein. From present appearances we may presume that the ore will be more abundant at that depth; and certain portions of it will grow richer at the expense of other layers. At the lower depths you will find it desirable to drift to the other mineral belts mentioned above. Judging from the development made at other mines your property is capable of yielding an amount of ore more than enough to meet the ordinary expenses of mining.

It will be well, however, to accumulate several thousand tons of workable ore upon the grounds before taking measures to erect concentrating works. Should other mining locations be established in the neighborhood, works might be erected sufficiently capacious to concentrate all that may be brought from several mines. The location is good, being situated in a healthy farming country where labor and supplies are abundant at low prices.

Respectfully submitted,
C. H. HITCHCOCK.

Hanover, N. H., May 19th, 1880.

GEOLOGICAL REPORT,

Upon the Jackson Gold Mine Situated in Jackson, Waldo County, Me., By Prof. F. L. Bartlett, State Assayer.

President and Directors of the Jackson Gold Mining and Milling Co.

GENTLEMEN:—According to your request I have visited and examined the "Jackson" mine, and have the honor herewith to present the following report. Since the point to

be demonstrated was the existence or non-existence of gold and other precious metals, I shall confine myself strictly to mineralogical features without much regard to the geological, keeping in mind the fact that this is substantially a report upon the *ores* and not one devoted to a general exposition of the mining property.

The ore vein is situated in a wide belt of slate and schist running in a S. W. and N. E. direction and extending up through Waldo and Piscataquis counties having a total length of 120 miles and being fully 75 miles wide in its broadest part. This great slate belt is always uniform and perfect in its trendings, not cut or disturbed for miles by dykes or other intrusive rocks. This fact is significant because it follows that once a fissure is formed in this belt it must necessarily be of great length and uniformity and consequently exceedingly deep. The slates in the vicinity of Jackson are exceptionally free from faults and dislocations, the strata showing for miles straight and unbroken lines of cleavage.

Broad bands of slate surcharged with iron, showing on exposed surfaces the blackened and rusty appearance, so common to the decomposition of iron pyrites, are geological features in the towns of Jackson and Brooks. The bands of iron charged slate are miles in length and are from 20 to 300 feet wide. They are unusually black by reason of the existence of minute particles of graphite in the slate; in some instances the rock would be called Plumbaginous slate. Immediately north, (and running parallel with it) of the Jackson vein is one of these immense bands of pyritiferous slate forming a back or high ridge for the ore vein.

The side next the vein, and forming an almost vertical foot wall for the ore channel, terminates abruptly in a sharp declivity nearly 100 feet deep, or in other words the ore vein occupies a deep fissure formed in the slates, which rise high on both sides forming a "canyon" or deep eroded chasm. As before stated the iron stained slate forms one of the walls of the vein. The vein runs by the compass east by west 28 deg. north. Croppings in numerous places both east and west on the above line of direction furnish indisputable evidence of the uniformity and great length of the lode.

It is apparently perfectly conformable to the strike of the inclosing country rock and is most assuredly and unquestionably a true fissure vein. The rock south of the lode differs materially from that on the north, being an indurated slate some parts of which much resemble trap rock. Joining this on the south comes a broad belt of slaty rock, somewhat talcoose in nature, bearing innumerable mineral quartz stringers. The dip of these enclosing rocks is almost vertical but generally inclining slightly to the south, but from a close examination of the country rocks some distance northerly I am inclined to the opinion that the lode will, before great depth is attained, dip to the *north*. The shallow excavation on the lode at the time of my visit was not sufficient to judge with any great degree of accuracy on the dip, and I suggest the northerly inclination solely from my examination of the country rocks.

The vein at the point of opening is peculiar and in some respects differs greatly from any other in our State. Commencing on the north side (the foot wall) is a band of "gossan" or decomposed rock four to six inches thick lying on the wall, which by the way is absolutely true and perfect. Next this is eighteen inches, possibly two feet, of crystallized quartz, containing nodules of hardened clay, iron pyrites, copper pyrites, zinc blende and galena, also *free gold*. The galena and blende is not frequent but occurs in little bunches now and then. There are many bunches or concretions of quartz presenting an oval, finely crystallized surface coated with oxide of iron. Next these curious crystallizations comes a most remarkable *clay streak, twelve inches thick*, dividing the eighteen inch quartz vein from another of nearly *ten feet* in thickness.

This immense clay seam is charged with minute specks

of iron pyrites also a little galena and other sulphurets. The clay is tenacious and black but on washing leaves a large percentage of the above named sulphurets. The quartz on the south side of this clay seam is stained with decomposed iron compounds but a close examination fails to reveal anything in it more valuable than iron pyrites. Work has not progressed sufficiently to allow an examination of the hanging wall of the big quartz vein but it is apparently composed of the hardened quartzose slate once before referred to.

THE ORE.

So many blank assays had been made on the quartz that serious doubts were entertained by some that the mine had been "salted." I am glad to say that I have been able to prove that gold does actually exist in the vein and that the doubts hitherto expressed are wholly without ground for belief. I have also been able to ascertain why so many assays failed to yield results, the simple fact being that the gold bearing stratum is confined wholly to the smaller vein, and even in that the gold is very unevenly distributed while the large part of the lode is apparently quite barren of the precious metal.

This is a peculiarity of many gold bearing veins and does not detract in the least from the value of the mine. While at the mine I took occasion to extract some of the quartz from the small vein, crush it and pan in the usual way for gold. From two out of four trials I was able to get a very fair showing of free gold. It is only fair to add that the gold was very rusty from the decomposed iron compounds and that the utmost caution is necessary in "panning" it in order to detect the colors which might be easily mistaken for iron.

In order to demonstrate more fully the existence of gold in the lode, I had a quantity of the quartz blasted out which I took home with me and subjected to the following tests:

In order to determine whether or not gold existed in the clay seam, quite a quantity was panned out yielding a large percentage of iron pyrites. One assay ton of these washings yielded at the rate of 104 99-100 dwt. of gold. This demonstrates fully the existence of gold in the "clay streak." Next samples were taken from the small quartz vein and assayed with the following results: No. 1. Eight ounces of quartz yielded at the rate of 5 83-100 dwts. of gold to the ton. No. 2. Eight ounces, washed, roasted and assayed yielded at the rate of 20 84-100 dwts. of gold to the ton. No. 3. One pound and nine ounces taken yielded at the rate of 1 45-100 dwts. of gold to the ton. No. 4. Eight ounces taken yielded no gold. No. 5. Twelve ounces taken yielded at the rate of 2 46-100 dwts. of gold to the ton. No. 6. Eight ounces taken yielded no gold. No. 7. Washings from one pound of ore yielded at the rate of 11 66-100 dwts. per ton. No. 8. Washings from four ounces of ore yielded at the rate of 29 15-100 dwts. per ton.

As the assays prove, the gold must be very unevenly distributed throughout the rock; some of it is free gold and some is combined with the sulphurets. Silver is also present in small quantities, and as depth is attained more will undoubtedly be found. Possibly the large quartz vein may contain gold and silver but my tests thus far give negative results.

The Jackson vein at the present depth is as near perfect as one can be; its walls, clay streak, width, strike, and gangue matter are all that the most exacting miner can ask for. The mineralization may not be so perfect as we should like, yet it cannot be called bad, more especially since it, so far, has been examined only from the superficial surface excavation; what may be found at greater depths we can only conjecture, but we certainly have every reason to suppose that it will yield something unusually rich. Many indications point to silver in the lode at greater depths, that certainly would not be a bad substitute for gold and it is not impossible that both of these metals may be found associated in the lode, as is often the case in veins that commence in gold alone. Regarding future work at the mine I should

advise continuing the present shaft downwards on the lode keeping the foot wall always in sight. I do not advise running a tunnel as I believe the vertical shaft on the vein will be the most economical and satisfactory in the end. A rocker and riffle should be constructed to use in the brook just below the mine for the purpose of washing the clay, broken rock and other debris from the shaft; possibly quite a large amount of gold may be saved this way, at all events it will serve the purpose of testing from time to time the auriferous value of the rock that is being mined.

Most Respectfully,

FRANK L. BARTLETT,
State Assayer.

Portland, May 20, 1880.

Deep Mining Shafts in Europe.

Twenty years ago the deepest mining shafts in the world reached only about 2000 feet below the surface. The very deepest, we believe, was a metalliferous mine in Hanover, which had been carried down to the depth of 2000. The deepest perpendicular shaft to-day is the Adalbert shaft in a silver-lead mine in Prizibram, in Bohemia, which, in May last, had reached the depth of 1000 metres—3280 feet. The attainment of that depth was made the occasion of three days' festival, and still further noticed by the striking off of a large number of commemorative silver medals, of the value of a florin each. There is no record of the beginning of work on this mine, although its written history goes back to 1527. Quite recently an elegant commemorative volume has also been written and printed, which an English paper before us says is "most interesting to those who have a taste for either the actualities or the antiquities of mining industry."

There are two other localities, however, where a greater depth has been reached than at the Adalbert shaft, but not in a perpendicular line. These are, first, the Rocksalt bore hole, near Spereberg, not far from Berlin, which a few years ago had been bored to a depth of 4475 feet; and, secondly, the coal mine at Viviers Leums, in Belgium, where the miners, by shaft sinking, together with boring, have reached a total depth of 3542 feet. Taking each singly, the deepest shafts in the world, at the present moment group themselves according to the following order:

1. The already mentioned Adalbert shaft, 3280 feet deep. As the top of this shaft is 1732 feet above the level of the sea, the bottom, is of course, 1548 feet below it.

2. Two shafts near Gilly, in Belgium, are sunk to the depth of 2847 feet. At this depth both were connected by a horizontal drift, from there an exploring shaft was sunk to a further depth of 666 feet, and from there again a trial hole, 49 feet in depth, is put down, so that the total depth reached is 3542 ft. As they did not, in the bore hole, discover the sought for coal seam, they have returned to the shaft at the 2847 foot level.

3. The Etmgkerts shaft of the Lugauer coal mining company, Rhenania, Lugau, in the kingdom of Saxony, is 2563 feet deep.

4. The Sampson shaft of the Oberhartz lead and silver mining works, near St. Andreasberg, Hanover, has a depth of 2437 feet, and is at present the deepest shaft of Prussian mining.

5. The winding shaft of the Rosebridge colliery, near Wigan, Lancashire, England, has a depth of 2458 feet. Coal is drawn from the "hanging on" at the 2418-foot level; the time of the cage running this distance being 55 seconds; the winding rope has, therefore, an average speed of 44 feet per second.

6. A shaft at the coal mines of St. Luke, near St. Chaumont, in the Loire department, France, reaches 2253 feet.

7. The shaft of the Dunkirk colliery, near Dukinfield, Lancashire, is 2069 feet deep, but the mine is prosecuted to a further depth of 755 feet by shafts from the lower levels, making a total depth of the mine of 2824 feet.

8. The deepest shaft of the collieries near Ronchamp, in France, is 1881 feet. A similar depth has been reached by the

argentiferous mine near Kongsberg, in Norway. The mines belonging to the Roros copper works, in Norway have worked to the depth of from 2540 to 4270 feet.

9. The Amelia shaft, in the mine works near Shemnitz, in Hungary, is 1782 feet deep.

10. The No. 1 Camphausen shaft, near Fishbach, in the department of the Saarbruck collieries, has now reached the depth of 1650 feet, and may possibly become the deepest shaft in Prussian coal mining.

Although the depths to which the shafts enumerated have penetrated into the interior of the earth in the art and practice of mining may appear mighty, and may be an expressive witness of the great progress made in mining pursuits; yet, on the other hand, the above results may be considered insignificantly small when we compare them with the extent of the earth's crust and the diameter of the earth. The deepest bore hole in the world is the artesian spring at Potsdam, in Missouri which reaches a depth of 5500 feet.

The Bonanza Kings.

Since the death of O'Brien the control of the immense interests of the concern has devolved upon the surviving partners, of whom one, Mr. Fair, is said to be suffering from an incipient softening of the brain, and another, Mr. Flood, seems to be inclined to attend chiefly to his personal comfort and to the approaching wedding of his daughter to the son of ex-President Grant. The burden of work falls mainly upon the shoulders of J. W. Mackay, whose wife is said to have sat for the portrait of Mrs. John Bryan, in Mrs. Lucy Hooper's new novel, "Under the Tricolor." The novel is likely to have a considerable *succes de curiosite*, owing to the fact that nearly all the characters in it are sketches of members of the American colony in Paris. Mrs. John Bryant takes the lead among them and is made very attractive. But still more interesting would it have been to have the obverse of the medal—a novel portraying the type of the husband of Mrs. Bryan, the Irish-American who send her and her three children to Paris to lead a princely life, and who himself works in the depths of the Nevada mines from 6 o'clock in the morning until 6 o'clock in the evening. That a man who has nothing or little to eat should be willing to work 2,800 feet below the surface is thought quite natural; but that a man who has \$50,000,000 or \$60,000,000 should do so is a psychological phenomenon the solution of which calls for something more than a flimsy novel written in a ladylike style.—[*New York Sun*.]

Who is the Discoverer?

The honor of being the first discoverer of silver in Colorado has been claimed by more than one, and has been granted to various individuals by different historians. It is now claimed that a gentleman who is at present a resident of Colorado Springs, and a well-known and respected citizen, deserves the honor of being the first discoverer of the mineral which has made Colorado the Mecca of the silver seekers.

Mr. George Aux of that city, discovered the Dallas lode in Chase gulch, near Central City, on July 28, 1859. He was then a prospector, working for the late Lewis N. Tappan, Chauncey Welch and others. After developing a strong vein of galena, the claim was abandoned as not rich enough to pay for smelting the lead.

A month or so after the original discovery Samuel F. Tappan, a brother of Lewis N. Tappan, stumbled upon the abandoned claim in one of his walks, and relocated it. He worked the mine and sent the ore East to his brother, who had it smelted for the lead. When the war of the rebellion broke out, the

at Colorado Regiment had no lead for bullets, and the lead from the mine was used for that purpose. George Aux was a member of that regiment, and thus had the privilege of loading his gun with balls made from mineral of his own discovery.

Several cases of accidental shooting in the regiment, in which slight wounds were given, resulted fatally, and it was discovered that the lead was poison, and that even a scratch from one of these bullets was sure death. The lead was therefore condemned in December, 1861, although the rebels accused the First Colorado of using the bullets in the battle of Apache Canyon, as many of their soldiers, only slightly wounded, perished in spite of all that could be done. This battle took place about twelve miles this side of Santa Fe, and was a hot contest.—[*Leadville Chronicle*.]

Two Tons of Silver Per Week.

There are five establishments in the United States where the smelting and refining of silver-bearing lead ores is carried on. One of the most extensive, if not the most extensive, of these works is that of the Pennsylvania Lead Company, of Pittsburg, Pa. Here the "base bullion" of Leadville and of Utah is brought to meet the cheap coke and coal of Pennsylvania, and though the freight per car averages \$300, the business has grown to great proportions. President Schwartz, of the above company, gives figures showing that 60 per cent of the "base bullion" output of Leadville is shipped to the Pittsburg refining works, besides 75 per cent of the output of Utah lead mines. "Base bullion" is the product of the ore smelters of the mining regions, and bears about the same relation to refined silver as pig metal to refined steel. At the Pittsburg refining establishment this base bullion is converted into lead, silver, and gold. The precious metals find their way to New York, while the lead is consumed by the makers of white lead. The Utah ores are the richest in gold, sometimes reaching 40 ounces per ton. Of silver, the Pennsylvania Lead Company ships 50,000 ounces per week, or two tons, representing in value, at \$1.14 per ounce, \$57,000. This metal leaves the works in pretty bars of 2,000 ounces each.—[*Scientific American*.]

CORRESPONDENCE.

Letter From Ellsworth.

Editor Maine Mining Journal:

During this depressed period it seems generally understood outside of the State of Maine that the mines are no longer occupying the attention of our people and that we have relinquished without a struggle all our high hopes of prosperity; but this idea is very far from being correct. The purifying process, it is true, is now going on and the separation of the chaff from the wheat has a bad effect on the spirits of those who have invested solely in chaff, but the wheat actually remains, together with those enduring, energetic men who have come to stay and are staying.

The Sullivan and Gouldsboro districts both present unflinching signs of an abiding faith, and those who think we have given up the ghost should take a short trip through that region and note down the amount of new buildings and machinery erected or in process of erection. The Sullivan is engaged on a large building designed for their reduction works and its Superintendent says he will be turning out silver bricks by July sometime. The Milton continues its lead in all improvements, exhibiting a model of all that is first-class in mining ingenuity. The other mines of this town continue their work with unabated vigor. In Gouldsboro the erection of the concentration works is being forwarded as rapidly as possible. Experts on the use of the water power and its amount have examined and reported favorably, so everything promises a speedy accomplishment of this undertaking. The Gouldsboro is showing ore that is absolutely wonderful and merits all the encomiums passed on it by experts or ignoramus.

Thus we are not dead yet. Oh! ye of little faith, come and believe!

Ellsworth, May 21, 1880.

LODES, LEADS AND VEINS.

LAWRENCE.—A Cook & Rymes 8 horse power donkey engine has been obtained and a gallows frame 16 feet high erected. A Deane pump No. 4 is being used and gives perfect satisfaction.

SNOW.—The shaft of the Snow mine has now reached a

depth of about 48 feet. Recent assays of the ore have shown in addition to silver and gold the presence of tin.

COMSTOCK.—At a meeting of the board of directors of the Comstock Silver Mining Company, resolutions of respect were passed to the memory of their late president, Hon. W. W. Warren. Subsequently Mark Hollingsworth, Esq., of Boston, was elected to fill the vacancy caused by the death of Mr. Warren. Dr. S. E. Thayer offered his resignation as director, and Emerson Leland, Esq., was elected to fill the vacancy. The company under its new management, propose to push operations on the mine with vigor. Recent assays from the vein show rich deposits of silver.—[*Boston Globe*.]

RIVERSIDE.—Work was stopped at the Riverside mine in Camden some two weeks ago.

APPLETON.—Professor Hitchcock has just made a report on this property, which will appear in this issue. The mine is situated in the town of Appleton about eleven miles from Camden. The shaft is down 47 feet on a vein that is fully twenty feet wide. Good copper ore is being taken out and it is estimated that there are over 100 tons of ore on the dump that will pay to concentrate. Many fine crystals of tourmaline are found at this mine imbedded in the copper ore, and they make very pretty cabinet specimens. Work is being pushed day and night, eleven men being employed. Messrs. Miller and Cleveland are largely interested in this promising property and will show any one interested in mining the same when they come to Camden.

OWL'S HEAD.—The shaft at this place which is down some 25 feet is nearly full of water. No work has been done here since last March.

ROCKLAND CITY.—The citizens of Rockland should congratulate themselves, on possessing such a fine showing for a good silver mine, as is found at the north end of their city. Here the shaft is down fifteen feet disclosing a well-defined quartz vein six feet in width, fairly mineralized, principally with argentiferous galena. A company will be formed on this property in about a week with the above name, and work pushed along vigorously, as the showing at the surface is good and will warrant considerable outlay of capital. The citizens of Rockland have several other prospect shafts under way along the shore and we should not be at all surprised to hear favorable reports from some of them before long.

DEER ISLE.—The stockholders of the Deer Isle Silver Mining Company held a meeting in Portland on Saturday afternoon last. It was voted to increase the capital stock of the company to \$500,000, the increase to be placed in the treasury for a working capital. The election of officers resulted as follows: President, Lorenzo Taylor; Secretary, George F. Gould; Treasurer, W. C. G. Carney; Directors, Lorenzo Taylor, W. C. G. Carney, James Sampson, C. A. Parsons and Charles W. Bryant.

Brooksville.

TAPLEY.—A remarkable copper showing has been discovered in the town of Brooksville on the farm of Capt. Thomas Tapley. Mr. E. B. Smith, of Bangor, is the fortunate owner of the bond. A crew of fifteen men are now being employed by Mr. Smith blasting out the copper ore and the vein has been opened a length of about 50 feet. The ore is rich sulphurets of copper, and considerable green and blue carbonate of copper is also found. The surface showing is one of the most brilliant in the State. The ore is being rapidly quarried out and will be taken over a road which is now being built to the bay about one mile distant from the mine and will then be shipped. It is known as the Tapley mine and its prospects are very promising.

CAPE ROZIER.—Several copper discoveries have been made in the vicinity of Cape Rozier in the western portion of the town of Brooksville. Capt. Pendleton of Blue Hill, is interested largely in one of them. The ore is rich copper-sulphurets

and carbonates and assays very high. Capt. Pendleton has had several assays made with the following result: No. 1 by the Scientific Publishing Co. of New York, 9 63-100 copper; No. 2 by A. E. Barclay of Bangor, 13 3-10 copper; No. 3, by Thos. Cahill of Bangor, 13 6-10 copper; No. 4, by Institute of Technology, 27 2-100; Nos. 5, 6 and 7, by Mr. Knight of Blue Hill, 27 5-100, 30 2-10 and 30 72-100 copper.

Blue Hill.

This well-known mining district is the scene of much activity. The work in the mines is progressing under favorable circumstances and the general showing is now much better than ever before.

DOUGLASS.—The ore dump is being daily increased by ore from the bottom of the shaft which is richer than any previously taken from the mine. The mill now in process of erection is an object of much interest. The building is 80ft. by 70ft. and 32ft in height. The stationary engines and boilers are of 100 horse power. The ore will be treated by Bradford's or the wet process. Ten separators or jigs and three slimers of Bradford's patent and built by Shoener & Allen of Tamaqua, Pa., are used. The ore from the mine is dumped into a large bin or hopper and passes through a Blake crusher and Cornish rolls and then into two screens which accurately size and deliver it to the separators. From there the concentrated ore is passed to an automatic dryer and as it leaves the dryer it is accurately and automatically sampled and delivered in barrels for shipment to the smelter. By working with water the inconvenience of dust and loss of fine ore is avoided. The mill is so arranged that all parts of the machinery can be seen from one point. The masonry and wood work has been delayed so that the mill will not be running as early as was first hoped. The work is now thoroughly under way. The crusher is in place, most of the machinery is on the ground and the mill will probably be running about the first of July. The capacity of the mill is about 100 tons per diem. Water is brought from an adjacent pond and elevated by a pump to a tank at the head of the mill. Mr. J. B. Wilford, a very pleasant and courteous gentleman, is superintending the erection of the mill. Hoisting engine and boiler of 25 horse power have recently arrived for the Douglass shaft.

ATLANTIC.—The tunnel is in 54 ft. and the great Douglass ore channel is now being cut. The end of the tunnel is in very handsome copper ore and drifting and stoping can at once be commenced.

CITY OF BOSTON.—The shaft has reached a depth of 55 feet. A shaft some 600 ft. to the south is down 10 feet. The work is progressing rapidly under Supt. O'Connell's charge.

BLUE HILL.—The company has been exceedingly fortunate in securing the services of Capt. Moyle, of the Copper Falls mine, of Lake Superior, as Supt. of the Blue Hill. Capt. Moyle has had long experience in the mining of copper ores and is entering into the development of the Blue Hill with energy. About 50 men are being employed around the mine and mill. Shaft No. 1 is down 90 ft., and levels have been run cutting two veins and drifts have been made of about 60 ft. on one and 20 feet on the other. A winze will soon be commenced from the first level and will be run on the vein. Shaft No. 2 is being cleared of water and it is proposed to sink shaft on an incline and thus follow the vein. Some very good ore is being taken from the mine. The speed of the mill has recently been considerably increased.

BISBEE.—The tunnel being run north from the shaft is in 26 ft. and it is thought that the vein will be reached soon.

EXCELSIOR.—A handsome and well appointed boarding house has been erected for the accommodation of the workmen. The shaft is now about 20 feet in depth. A steam drill is being used.

YOUNG HILL.—The shaft is down 79 ft., 6 inches and drift-

ing will be commenced in a few weeks. The streak of galena ore is gradually widening.

TWIN-LEAD.—The tasty buildings of the Twin-Lead are much admired. The tunnel to the southward is in 15 feet. It now appears that the vein did not straighten as much as was at one time expected. The ore body will probably be cut by going a few feet further.

BLUE HILL CENTRAL.—The shaft is now 42 feet in depth and strongly timbered. The ledge was struck at a depth of 33 ft. and the shaft has now penetrated 9 ft. into the rock. A pump is soon to be obtained. Supt. Hanson is doing good work.

STOVER HILL.—Work continues in the tunnel which is now in 34 feet. The rock contains occasional splatterings of copper and considerable iron. Mr. O'Rourke is superintending operations.

FAVORITE.—The shaft is now down 24 ft. Some good copper and galena ore is being taken out.

MCINTYRE.—The shaft is down 16 ft. through gravel and is now passing through loose rocks in close proximity to the ledge.

GRANGER.—A night shift commenced work this week. The shaft is now down about 30 ft. and the work is progressing very favorably under the superintendency of Col. Granger.

SILVER REEF.—The shaft is down about 30 feet. During the sickness of Supt. Smith, Mr. Ricker, the foreman, is in charge.

REVERE.—The boarding house 100 ft. by 12 ft. is completed, also the office and stable. Supt. Darling is pushing the work and the shaft is down about 35 ft. A wharf is soon to be built jointly by the Revere and Silver Reef companies.

LADY ELGIN.—The work is progressing steadily under Supt. Pearson.

DIRIGO.—A very good showing has been made on the property.

VICTORIA.—The shaft being sunk is now 38 feet in depth and Supt. Hunt reports superior silver ore.

BAY VIEW.—A depth of 30 feet has now been reached in the shaft. Good progress is being made.

Sullivan.

FANEUIL HALL & SULLIVAN.—The foundation for the new shaft house is nearly completed and it will be 30ft. by 80ft. The shaft is sunk to a depth of 21 feet, and timbered. As soon as a safe depth is attained the company will erect their buildings which will contain the boilers, hoisting engines, air compressor and all the necessary machinery required to work a first class mine.

The following items of information concerning the mines of this district are from the Sullivan *Bulletin*:

PINE TREE.—The drift, from the 125 foot level, is now in 25 feet, showing favorable indications. Ore of a very fine grade is now being taken out of the mine.

SULLIVAN.—Work is progressing at the usual rate. Sinking on shaft No. 2 suspended for a few days for the purpose of putting in second 50 foot section of timbers. The shaft has now reached a depth of 100 feet. The drift of 130 foot level of old shaft still showing a good sized vein of native silver ore.

BEACON HILL.—Have a good showing of ore. The new shaft house is up and everything is placed in good order. The owner says that the property is good enough, and he can afford to wait for better times. To show his indifference to the depressed state of the stock market he has fitted up his new yacht in splendid style, and has gone off fishing with a party of friends.

WAUKEAG.—Cross-cut is now in 40 feet from shaft running towards vein. The shaft is being timbered to a depth of 162 feet from the hoisting floor, preparatory for running the remainder of cross-cut and drifts to the vein. Mr. Barrett, the former foreman of the mine, has taken a contract to run 150 feet

more or less on the 142 ft. level to strike the vein, and will use one Johnson and one Rand drill to do the work.

MILTON.—Work is progressing as usual, without any material change to note. Making good progress in erecting sampling mill, which is expected to be in running order in about a week. The air compressor, which should have arrived here last month, will not be shipped from Fitchburg, Mass., before the 29th inst. New boiler No. 2, and balance of machinery running first-rate. Bottom of shafts in fair blasting ground.

GOULDSBORO.—Working steam drill in open cut. Splendid ore in considerable quantities is now being taken out, and the dump reserved for concentration is rapidly increasing in size. Work is progressing on the new shaft house. Part of the machinery for new hoisting works has arrived and the balance is in readiness to be shipped.—[*Bulletin*.]

WEST BAY.—The new shaft house is completed and work is progressing nicely in shaft, which is down 24 feet, ore identical with that obtained in the Gouldsboro, and carries galena and copper. The vein is at present 13 inches wide. Average assays obtained from pay streak recently yielded in silver about 80 ounces per ton.—[*Bulletin*.]

FRANKLIN.—Work is progressing under favorable circumstances. The shaft is down 20 feet and timbering is now going on. Very rich ore is being taken out.

FRANKLIN EXTENSION.—The sinking of the shaft has commenced. Steam machinery is being used.

BOSTON SILVER.—The Boston Silver Mine, at Ellsworth Falls, owned by the Boston Silver Mining Company, has reached a stage of development very gratifying to the stockholders. Very recently while the miners engaged in sinking the shaft were cutting into the foot of an inclined wall to preserve the width of the shaft a "blind vein" eighteen inches in width was struck and proved to be heavily mineralized with true argentiferous galena. The work on the mine is being pushed forward vigorously.

N. B. P.

BULLION.—The machinery for the new mill will be shipped from Philadelphia next week and the mill will be running by about the first of August. The mill will be one of 50 tons capacity per diem.

GREGORY.—The Gregory Copper Mining and Smelting Company has been recently reorganized under the laws of the State of Maine with a capital of \$500,000, divided into 100,000 shares of a par value of \$5. Forty thousand shares are reserved for a treasury fund. The following are the officers: President, H. Gregory, Jr., Rockland; Treasurer and Secretary, H. T. Beverage, Rockland; Directors, H. Gregory, Jr., Maynard Sumner, J. Fred Merrill, S. M. Bird, A. F. Ames, George Gregory and Capt. Henry Spaulding. The property of the company embraces 140 acres on the Gardner Mountain range in the town of Littleton in the State of New Hampshire. There are two shafts down about 60 feet each and both in good ore. A level has been made and it is proposed to sink 100 ft. further and then run another level. The prospect for a good copper mine is one of the best in New England. A steam engine is to be put in at once to use in hoisting.

GARDNER MOUNTAIN.—The sinking of the shaft is progressing and a level will be run at 100 ft.

SHELburne.—In the list of new companies in our last issue the capital stock of the Shelburne Mining Company, was erroneously stated to be \$125,000. It should have been \$500,000. The main shaft is down 285 feet and 25 tons of fine galena ore are on the dump. A dam 70 feet in length with a sluice way 30 feet long is being built to carry a brook with an 8ft fall 125 feet below the main shaft. The old dam recently gave away and the shaft is now full of water. A sample of the galena ore was recently assayed and reduced into a small brick. When reduced the silver and lead combined amounted to 71 per cent of the total amount used.

MAINE TIN MINING COMPANY.

The Maine Tin Mining Company was recently organized in Bangor with a capital of \$500,000, divided into 100,000 shares of a par value of \$5. The officers are, President, Col. I. S. Bangs of Waterville; Treasurer, John S. Jenness of Bangor; Secretary, H. E. Hamlin of Bangor; Directors, Col. I. S. Bangs, of Waterville, Gen. Chas. Hamlin, Dr. A. C. Hamlin and John S. Jenness of Bangor, and S. S. Marble of Waldoboro.

The company propose to operate for tin wherever found in the State of Maine and especially in the town of Winslow where a deposit of tin was discovered ten years or more ago. The property has recently been very thoroughly explored, a considerable quantity of rich specimens of tin has been extracted and bars of tin have been melted from them.

The deposit at Winslow, exhibits near the surface, several veins from one inch to several inches in thickness, carrying more or less tin. The ore of tin is the per oxide or cassiterite yielding from 46 to 76 per cent of metal, and enclosed in layers of calcareous slate, resting upon a broad and well defined dyke of trap stone. It is associated with quartz, fluor spar, carb. of lime and margarite, running parallel with the slates.

The mineralized belt measures thirty feet in width, and is estimated to be forty or more; in the brook in front of the shallow pit, five or more veins appear within a space of eight feet. No deposit in the United States has thus far yielded as many rich specimens of tin stone at the present time; and it is stated by experts, that all the minute and numerous veins of the surface, may be expected to unite at no great depth. Slabs of the slates have been taken out, containing hundreds of crystals of tin, varying from the size of a pea to the end of the thumb.

Tin mines are not easily discovered, and the ore is rarely abundant or remunerative at the surface. The quantity gradually increases with the depth. In Cornwall and Saxony, the veins are usually congeries of thin streaks, and rarely exceed six inches in thickness. In the mine of Trewiddens-ball, the tin ore occurs in veins from half an inch to eight inches in width, but so irregular and interrupted, it is difficult to determine their direction or inclination. The tin floor of the famous Bottalack Mine, is only eighteen inches wide, even at a vast depth.

The quantity of tin ore required for successful mining is much smaller than is generally supposed. According to the published reports of the English engineers, Phillips and Darlington, the average quantity of tin ore found in the productive mines of Europe, rarely exceeds twenty pounds of ore to the ton of vein rock; and in fact, the average of the ore in the Cornwall Mines was, in 1855, only seventeen and a third pounds to the ton of vein stuff. The great tin mine of Altenburg, which yielded at one time, four-fifths of that district in Saxony, afforded but one ton of tin to two hundred and forty of rock.

It is believed by geologists, that the deposit at Winslow is a remarkable one, and of value, and that it is worthy of a large expenditure of money in testing its value. It is hoped that further explorations will reveal what has long been sought for in the United States—a successful tin mine. The Company own the mineral right to a large tract of territory, with sufficient land for mining and other purposes; also the right to purchase adjoining properties, if required. With the view of development, the Directors propose to offer to the public a limited amount of Treasury Stock.

Prof. Forrest Shepherd, of Connecticut, and Prof. C. H. Hitchcock, of New Hampshire, have visited the property and made favorable reports.

Nuggets.

Mr. Joseph Kimball, of Bangor, is to run the engine for the Douglass mill at Blue Hill.

Mr. Thurston Douglass is commencing the erection of a dwelling house at Blue Hill.

We have been presented with some elegant specimens of mica from the Maine Mica Mine in Gilead.

Rev. Samuel Annear is arranging a crystal garden at his beautiful home near the Penobscot mine.

D. H. Bisbee recently shipped 200 kegs of powder from his mills at Camden to W. E. Grindle of Blue Hill.

Several of the ponds in the vicinity of Blue Hill abound in trout and the fishing during the past few days has been excellent.

Worcester, Freeman & Co., are sinking a shaft in the Cole Hill vein 6x14 feet, in Columbia; they mean business.—[*Machias Union*.]

A sardine factory has just been started at Camden by New York parties. They expect to put up 5,000 boxes a day when they get fully under way.

Active operations have commenced at the quarry of the Blanchard Slate Company at Blanchard near the present terminus of the Bangor & Piscataquis Railroad.

Workmen on the Bowker mine at Marshfield are down 8 to 10 feet. Experts are of the opinion that the shaft is disclosing a true fissure vein of quartz carrying gold.—[*Machias Union*.]

During the past week we have seen numerous specimens from the Sullivan mine which are covered with native silver. The ore now being taken out is much richer than any ever before found in the mine.

A property now being opened in Egypt district by Dr. L. W. Hodgkins of Ellsworth is making a fine showing. Mr. Barney Mullan has charge of the work. The vein has been stripped for more than 20 feet, showing handsome ore and a shaft will be started immediately.

The Globe Hotel on Main Street in Bangor has been recently reopened under new management and is destined to be one of the most popular hostelrys in the State. The Globe is pleasantly and conveniently situated for mining and business men. Mr. R. H. Stanley is the manager.

The mining property, recently purchased by Francis Worcester, Esq., at Harrington, Me., is looking very promising for future developments. A shaft has been started, which is now down eight feet, showing a vein heavily charged with copper and iron sulphurets and galena.—[*Sullivan Bulletin*.]

James R. Talbot, J. F. Lynch and I. B. Desisle have bonded of Messrs. Cooper at East Machias, about 3500 acres of land bordering on Gardner's Lake, in the towns of Marion and Whiting, for mineral. Native copper has been discovered, very rich, one of the best surface showings of copper ever found in Maine.—[*Machias Union*.]

What is said to be the largest block of granite ever quarried in the United States has recently been taken from a quarry at Vinalhaven, in Maine. It is 50 feet long, 5 1-2 feet square at the base, and 3 1-2 feet square at the top. It weighs from 75 to 100 tons. It cost \$1700 to blast it and move it to the shed where it is to be finished. It is to form the shaft of the monument to Gen. Wool, to be erected at Troy, N. Y.

A company have bought Look's Island near the mouth of Chandler's River in Jonesboro; H. H. Bowles of Cherryfield 5-10; J. H. Crandon, Richard Allen, J. L. Bucknom, C. A. Wilson, Columbia Falls, 5-10. The surface showing on the island, which contains 60 to 70 acres, is rich in copper, galena and silver. Quite recently we learn that E. J. Swan and a Mr. Grant, of Franklin, have bought an interest in the same island.—[*Machias Union*.]

Dr. H. F. Hanson, of this city has shown us a considerable quantity of metallic antimony reduced from ore from the mine at Carmel. Dr. Hanson barreled 380 pounds of the ore and rock and shipped it to Wm. E. Nickerson, assayer and chemist, Somerville, Mass., and the latter selected 100 pounds from the above which he reduced, obtaining 20 pounds of pure

metallic antimony. Some of the assays of the ore run as high as 65 per cent of antimony. The prospect is that the mine can be made to pay handsomely.

We have said more or less lately about the Jones Hill mine in Garland. A man in Bangor, supposing, as he says, that he held a good claim upon the property, has within a short time sold shares amounting to over \$6000, and, as we are informed, received the cash therefor. But the title that he holds is subject to a mineral lease, as they deem it, and this lease is in possession of and has been paid for, by Messrs. Hegarty and Wood of Corinna, and several parties in Bangor. They say they have got the thing solid, and are sure of it. If this be the case, of course the sales of shares that we have alluded to will have to be revoked and the money refunded, unless some arrangement can be made with the owners of the lease. And it is pretty certain that they would name a pretty high figure.—[*Newport Times*.

The English Metal Market.

REPORTED BY F. L. BARTLETT, PORTLAND, ME.

Advices from London for the week ending May 8th.—Copper continues on the down grade owing principally to the notices of large shipments of Chili bar on the way. Ingot quoted at 64£, Chili bars at 58£ 10s. Sales for the past week have been largely in excess of the previous week. Sales of copper ore at Redruth and Cornwall were 2110 tons of 65-8 per cent. produce at 3£ 17s. 6d. per ton, 1214 tons of 71-8 per cent. produce at 3£ 19s. Lead does not exhibit any change. Sales of 108 tons dressed ore inclusive of the silver contents, ranged from 9£ 13s. 6d. to 13£ 8s.—Zinc seems to be in fair demand and the prices remain firm. 453 tons were sold at prices ranging from 2£ 2s. 6d. to 5£ 1s., produce from 25 to 60 per cent. Nickel shows better market, 10 per cent. ore being quoted high at 25£ per ton.

Metal Market.

The following were the quotations in New York on Wednesday:

Silver Bullion.....	114½	Zinc.....	7½
Gold Bullion.....	100½	Spelter.....	6½
Pig Lead.....	43	L'ke Cop (ing'ts).....	17½ @ 18
Tin (Straits).....	16½	Antimony.....	17½

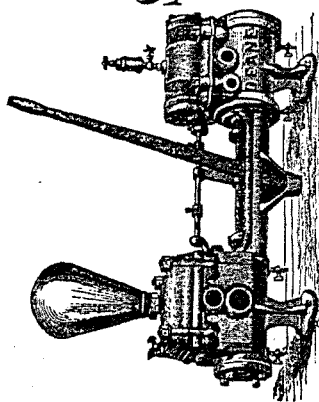
Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MAY 26, 1890.

NAME.	THUR.		FRI.		SAT.		MON.		TUES.		WED.	
	Bid.	Asked.	Bid.	Asked.	Bid.	Asked.	Bid.	Asked.	Bid.	Asked.	Bid.	Asked.
Acion.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Ashley.....	60	60	60	60	60	60	60	60	60	60	60	60
Ammonoosuc.....	95	95	95	95	95	95	95	95	95	95	95	95
Atlantic.....	18	18	18	18	18	18	18	18	18	18	18	18
Boston Acton.....	75	75	75	75	75	75	75	75	75	75	75	75
Bisbee.....	5 00	5 00	5 00	5 00	5 00	5 00	5 00	5 00	5 00	5 00	5 00	5 00
Blue Hill.....	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Con Hampden.....	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Corinna.....	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50
Cherryfield.....	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10
Darling.....	45	45	45	45	45	45	45	45	45	45	45	45
Deer Isle.....	40	40	40	40	40	40	40	40	40	40	40	40
Douglas.....	60	60	60	60	60	60	60	60	60	60	60	60
Favorite.....	25	25	25	25	25	25	25	25	25	25	25	25
Forest City.....	60	60	60	60	60	60	60	60	60	60	60	60
Fort Knox.....	25	25	25	25	25	25	25	25	25	25	25	25
Gouldsborough.....	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50
Grant.....	25	25	25	25	25	25	25	25	25	25	25	25
Harrington.....	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50	1 50
Ilione.....	30	30	30	30	30	30	30	30	30	30	30	30
Milton.....	10	10	10	10	10	10	10	10	10	10	10	10
Mineral Hill.....	10	10	10	10	10	10	10	10	10	10	10	10
Norombega.....	10	10	10	10	10	10	10	10	10	10	10	10
Owl's Head.....	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Pett Menah.....	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25	2 25
Portland Acton.....	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00
Robert Emmett.....	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00
Stover Hill.....	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Sullivan.....	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00
Twin Lead.....	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00	4 00
Waukeag.....	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Young Hecla.....	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00

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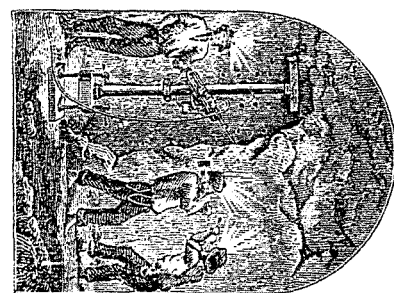


HENRY McLAUGHLIN,
Front Street, - - Bangor,
AGENT FOR

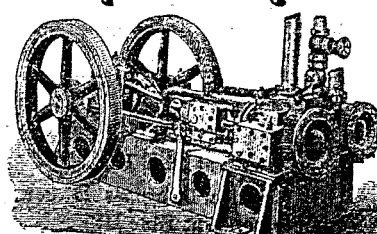
IRGERSOLL ROCK DRILL CO.,
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ASBESTOS PAINTS

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— AND —
MINING SUPPLIES.



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ROCK DRILL CO.,
11-12 Park Place, N. Y.,
Manufacturers of
ROCK DRILLS,
AND IMPROVED
Air Compressors.



ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Loughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 Shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7½ Lisbon St., Lewiston.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President and Treasurer, D. H. Bisbee, Camden; Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burdham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CONSOLIDATED ACTON SILVER MINING CO.
On the Acton Lode, Acton, Me.
Capital, \$120,000; 240,000 Shares. Par value, \$5. Non-assessable.
President, George P. Wescott; Vice President, John S. Morris; Secretary, Charles D. Clark; Treasurer, A. A. Dennett. Directors—G. P. Wescott, J. S. Morris, W. F. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Furguson Haines, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.
The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.
Offices—22 Exchange St., Portland, Me., and 28 Congress St., Boston, Mass.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPDEN SILVER MINING CO., Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Loughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
THOMAS CAHILL, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 Shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Dickinson, James Nealey, Jr., Chas. E. Field.
HENRY L. GREGORY, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Vasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hinckley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAAC S. GRANT, Supt.

EDGEMOGGIN SILVER MINING COMPANY
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Bym, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Gregory; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Latfan, Jeremiah Wooster.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.
Office, No. 1 Pemberton Square, Room 4, Boston.
BROWNELL GRANGER, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000. Shares 10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors,—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GOULDSBORO SILVER MINING COMPANY.
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 6000 Shares.
President, Judge A. P. Wiswell, Ellsworth.
Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY.
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.
President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. I. Huxford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Ham, Jackson; John H. Gordon, M. Chase, J. I. Watts, I. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.
Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.
Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Dutton, Blue Hill; J. S. Coudon, Orland.
TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY.
Hamden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
GEO. D. HOLT, Supt.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY.
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emory G. Ingalls, of Bangor; Alvin Roditt, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY.
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. C. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAllister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAllister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.
F. W. CROSBY, Supt.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 shares.
Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer of Biddeford.
HOWARD P. SOULE, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each.
President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.
C. E. LANE, Brooks, Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.
Office, No. 45 Milk Street, Boston; Rooms F and G, 3d floor.
President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Duncklee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndner Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Starns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.
WILKIE DARLING, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and Treasurer, G. B. Sean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.
E. J. SWAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 28,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROURKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, B. P. Tilden, Sullivan; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.
SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President—, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY.
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me. Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, 32,000 Shares.
President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Scavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

The Acton

CONSOLIDATED

Silver Mining and Milling

COMPANY,

Offers to its Stockholders and the public a limited number of shares of its treasury stock

At \$1.50 per Share.

The above consolidation embraces the properties of the Acton, Portland-Acton, Boston-Acton and Forest City Silver Mining Companies, representing 2,000 feet of the celebrated Acton lode, pronounced by all experts to be a true fissure vein highly mineralized throughout. For the more economical and expeditious working of the mine the consolidation was formed, the whole is now under the supervision of an experienced Nevada miner, and the work of exploration at greater depth will be vigorously prosecuted.

This Company have all necessary tools, etc., for sinking the shaft 500 feet; suitable buildings, such as shaft-house, ore-house, blacksmith-shop and boarding-house. The Company have a large quantity of ore now ready for concentrating, and will work the Old Acton Shaft, which is now down 100 feet on the vein. The ore is steadily improving as depth is attained. The management are confident that the Acton Consolidated will at no distant day rank among the foremost bullion-producing mines of the country. Every means will be taken to conduct the work honestly and economically.

Feeling confident of success the management offer the public a limited number of shares at \$1.50 each—to create a permanent fund for the working of the mine—that the work may proceed vigorously and produce gratifying results to the stockholders.

The Company has 76,000 shares in the treasury—par value, \$5 each. The officers are well-known business men of Portland and vicinity.

Subscriptions will be received at the office of the Company, No. 22 Exchange Street, Portland, Me.

A. A. DENNETT,
Treas. Acton Consolidated Silver

my1ld3w M. and M. Co.

F. F. PHILLIPS, A. B.,
Analytical Chemist,

STATE ASSAYER.

Office in Free Press Building, Rockland, Me.

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Repairing a specialty.

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OF MAINE.

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Quality and natural advantages unsurpassed. Dumpage and drainage unequalled. Railroad transportation adjoining. Stock for sale. Sections leased on favorable terms. Capitalists invited to inspect.
A. C. HAMLIN, President, Bangor.

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A Twenty Page Weekly,

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Porter Nealey, Bangor, Me.
All the Bookstores, Bangor, Me.
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Wm. P. Morris, Portland, Me.
Harry B. Parker, Blue Hill, Me.
John A. Hale, Ellsworth, Me.
J. M. Fernald, Lewiston, Me.
James Nichols & Co., Calais, Me.
J. Frank Pierce, Augusta, Me.
John S. Caldwell, Belfast, Me.
Maine Mining Exchange, Boston, Mass.
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A. K. Loring, Boston.
Geo. H. Flagg, Skowhegan.
H. M. Burnham, Oldtown.
Warren & Emery, Bucksport.
E. R. Spear, Rockland, Me.

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Bangor, Me.

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West,

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Bangor and Bar Harbor STEAMBOAT CO.

THE NEW STEAMER

CITY OF BANGOR

CAPT. S. H. BARBOUR,

Leaves Bangor for Bar Harbor every WEDNESDAY and SATURDAY at 8 A. M., touching at Hampden; Winterport, 9.15; Bucksport, 9.45; Fort Point, 10.45; Castine, 11.30; Islesboro, 12.30 P. M.; Deer Isle, 2 P. M.; S. W. Harbor, 4.00; Bar Harbor, 5.30 P. M. Returning, leaves Bar Harbor every MONDAY and THURSDAY at 6.30 A. M., touching S. W. Harbor at 8.00; Deer Isle at 10.30; Castine at 12 M. connecting with steamer May Queen for Belfast. Fort Point at 1.00 P. M.; Bucksport at 2.00, arriving in Bangor at 4.00 P. M. Meals served on board.

Bangor and Bluehill.

TWO TRIPS PER WEEK!

Steamer May Field.

CAPT. WM. BARBOUR,

Leaves Bangor TUESDAYS and THURSDAYS at 8 A. M.; Winterport at 9.30; Bucksport at 10; arriving at Bluehill at 4.30. Fare \$1.50. Sure connections at Castine for Islesboro and Belfast. Returning, leaves Bluehill every WEDNESDAY and FRIDAY at 7.30 A. M., for Bangor, touching at Sedgwick, Deer Isle, Castine, Fort Point, Sandy Point, Bucksport, Winterport and Hampden. FRANK D. PULLEN, Agent.

Bangor, June 1.

Bucksport & Bangor Railroad



CHANGE OF TIME, MAY. 3d, 1880.

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.35	1.30 7.20
Arrive in Bucksport,	8.45	2.45 8.30

Direct connection is made with the two through trains on Maine Central via E. & N. A. Railway; also with Bangor & P's cataguis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arrival of morning train from Bangor, reaching Blue Hill at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection east, leave Bucksport 1.00 P. M.

L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this line will leave India Wharf, Boston, and Franklin Wharf, Portland, every evening (Sundays excepted) at 7 o'clock.

CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West.

Tourists will find this one of the finest OCEAN TRIPS on the New England coast.

WM. WEEKS, J. B. COYLE, Jr.,
Agent, Boston. Gen. Ag't, Portland.

BANGOR AND ELLSWORTH STAGE LINE.

Stages leave Bangor for Ellsworth at 8 o'clock A. M. and 3 P. M., or on arrival of Western trains from Portland and Boston, connecting at Ellsworth with stages for Bar Harbor, Sullivan and surrounding towns. Good covered coaches run over this line between Bangor and Ellsworth. Extra teams furnished at all times, at reasonable rates, at their stables in Bangor and Ellsworth.

JOHN M. HALE & CO.

Ellsworth, March 2, 1880.

BUCKSPORT AND BLUE HILL STAGE LINE.

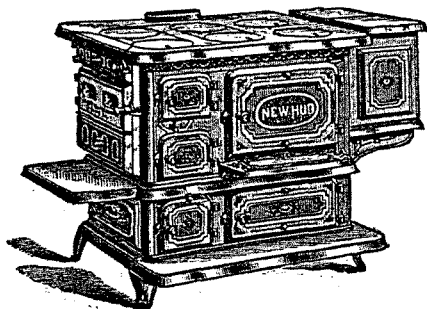
The stage leaves Bucksport daily, Sundays excepted, at 1 P. M. for Blue Hill and Sedgwick.

Returning, leaves Blue Hill, daily, Sundays excepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to Blue Hill, and by the Blue Hill driver through to Bangor.

A. P. CURRIER & CO., Proprietors.

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THE NEW HUB RANGE,

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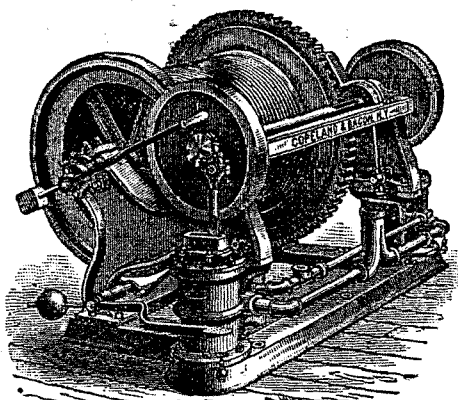
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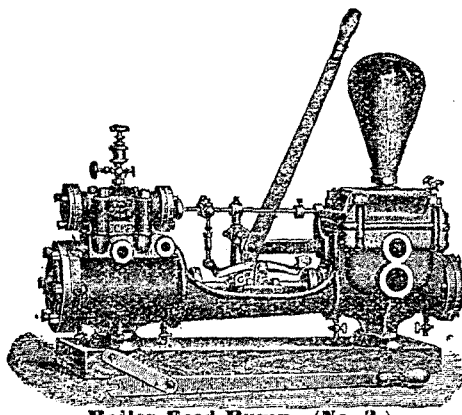
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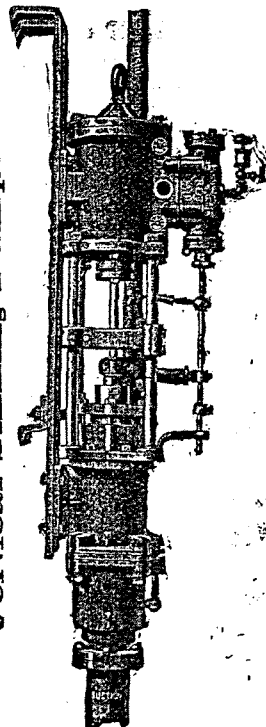
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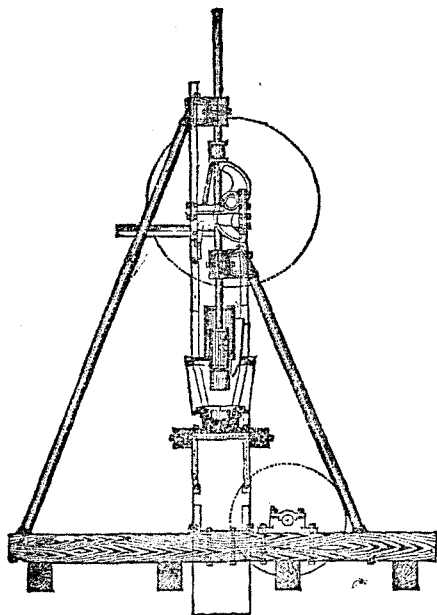
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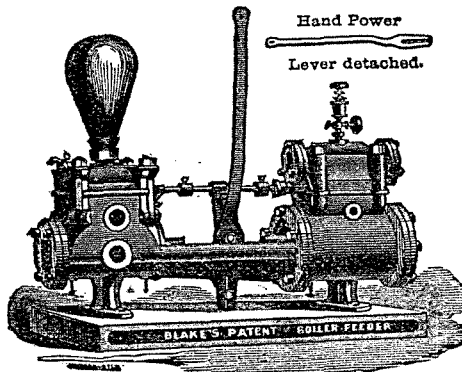
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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JUNE 4, 1880.

MINES AND STOCKS.

That there are already a large number of valuable mines in Maine which will ere long begin to show returns for the capital invested, and that there are also many promising prospects which may develop into paying properties is now certain. That investments in these properties while their stocks remain at a low figure will prove remunerative is apparent. There are however some matters in connection with this stock business which need consideration.

Many persons seem to have had such unlimited confidence in the mineral wealth of the State that they have used little or no discrimination, and have blindly invested in every stock which was offered them, thinking that every spot of land where mineral had been discovered must shortly become a paying mine. Others have imagined that by getting in on the "ground floor" the officers of a company would contrive some means to elevate the price of the stock regardless of its merit, when they might sell out with profit. Still others have been led by means of misrepresentations and false colorings to invest in stocks which are utterly valueless, and many of which were such bare-faced frauds that a trifling amount of caution would have shown how little they were entitled to confidence. But stock speculation is a business in which as a general rule all caution is set aside. Most men prefer to "go it blind," and take their chances of success or failure.

It is a gross injustice to mining to attribute to it all the evils attendant upon such methods of doing business. The industry of mining is no more responsible for the army of bummers and hangers-on who manage in some way to procure a miserable living by "fleecing the lambs" than is any other honorable profession for its "rag-tag and bob-tail." Nevertheless, the immense sums of money which have in many instances been realized from small investments in mining schemes, together with the peculiar fascination which has

always attended mining for the precious metals tends to make the great mass of people more sanguine with regard to the possibilities of sudden wealth from investments in this field than any other which is offered, and also frequently causes them to forget their usual caution.

With regard to the Maine mines, there is every possible indication that many of them will prove immensely remunerative to their owners, and we have every reason to believe that those who wish to invest in mining securities can find no other field which offers such flattering inducements as this of the Pine Tree State. But the experiences of the past have certainly shown how absolutely necessary it is in order to be successful, to ascertain first—whether the company whose stock is offered for sale really have a mine, and second—whether the amount of capitalization and present price of the shares correspond with its real value. By taking these simple measures of precaution, the element of risk is reduced to a minimum, and investing in stocks becomes a legitimate business.

It is high time that all who are interested in mining should realize the necessity of keeping *mining* and *stock speculation* absolutely and entirely distinct and separate from each other. The business of working a mine for the purpose of manipulating the stock is both demoralizing in its effects and ruinous to the whole industry, and the mines which are intended to be worked for the amount of bullion they will produce should first be placed upon such a solid financial basis that its failure or success may not depend upon the fluctuations of the stock market, or be subject to the jobbing operations of the bulls and bears in the commercial centres.

[From the Mining Review.]

Haste in Mining.

The general desire of our people for quick returns has had an unfavorable influence upon the best results of mining. It is a well-known fact by those who are informed in regard to the matter, that a mine, to do its best work for years, requires a long period of preparation, and this is what the enthusiastic, inexperienced newcomer is not inclined to give. He wants to find a mine that will pay at once. Many people who have looked with considerable interest upon mining matters have allowed themselves to become somewhat discouraged because the production is so small, compared with the number of mines and mining claims located and the large mining territory continually opened to the prospector and the miner. Some processes are slow, and mining is one of them. In many cases not only is there a large amount of work to be done in and about the mine before it is prepared to send out any ore, but often the location is such that much labor must necessarily be expended on roads to facilitate the shipment of supplies, machinery, and the mine's production. Many have made predictions of a sudden increase in the total production of our mines, when the fact is the stream of production, will receive no very sudden accession, but will be steadily increased as one mine after another, after years of preparation, adds its output to the slowly increasing product.

Another thing which affects the total product is the fact that there was a time between the discovery of the first mines and the late active interest in these matters when there

were no mines added to the list; a number of years intervened, when this interest languished and seemed dead. Now when some of the earlier mines begin, on account of depth and other reasons, to fall off in their output, there are no developed mines to supply the place; so the product depends upon the newly opened mines, which in the grand total show no great increase on account of the deficiency to be made up. As soon as the great number of mines now being opened in all parts of the mining country can be put in shape for work we may confidently look for a large and permanent increase in the amount of precious metals produced, and most satisfactory results from our mines and mining interest. The results of the spirit we have indicated—the pressure of eager stockholders for dividends and the haste to force a mine to production before it is in condition for such a purpose—are seen in the craze for new fields, the abandoned prospect-holes and claims, the wasteful methods of mining only high-grade ore, the Little Pittsburg collapse, and, more than all, in the danger which threatens the mining interests growing out of this high-pressure system of mining operations.

Mining, real and legitimate, partakes much of the massive grandeur of its surroundings, and has the characteristics of slow, gradual growth and years of steadily increasing product and value. Plans should be laid to reach into the years of the future, for the richest harvests of the best mines ripen at the end of a generation.

Personals.

E. C. NICHOLS, Esq., has gone to Boston.

PROF. W. F. STEWART has been in Portland during the past week.

COL. EDWARD K. MOULTON has returned to Bangor from a trip among the mining regions.

I. S. JOHNSON, Esq., of Bangor, is on a brief visit to the McFarland mine in Hancock.

CAPT. PENDLETON, of Blue Hill, is soon to visit Bangor with his charming yacht "Haze."

MR. C. C. COUILLARD, of the Boston *Herald*, is visiting the mining regions of Eastern Maine.

MR. MAYNARD, of Bangor, leaves next week to engage in mining in the gold fields of Canada.

COL. GRANGER, of the Granger mine at Blue Hill, made a brief trip to Boston during the past week.

H. GREGORY, Jr., of Rockland, and W. D. SWAZEY, of Bucksport, visited Blue Hill on Saturday last.

COL. J. CARY FRENCH, of East Lamoine, passed through Bangor last Sunday on his return from Boston and New York.

We received a pleasant call early in the week from Mr. WM. E. NICKERSON, chemist and assayer, of Somerville, Mass.

We have also received calls from Mr. C. C. COUILLARD, of the Boston *Herald*, and Mr. CURRAN, of the New York *Herald*.

COL. PULSIFER, the principal proprietor of the Boston *Herald*, has been elected President of the Sanford Steamship Company.

MR. A. P. BUCK, of Foxcroft, has gone this week to Nova Scotia where he will pass two weeks among the gold mines of that country.

The late HENRY EMERY, of the Maine Mining Exchange, died from the effects of a surgical operation in a Boston hospital. A tumor weighing thirty-five pounds was removed from one of his limbs.

PROF. W. O. CROSBY, of the Massachusetts Institute of Technology, has returned to Boston after a brief tour through the mining regions of Eastern Maine. The Professor is highly pleased with what he has seen and believes that we have many mines of value and permanency. In a few weeks he will visit Maine again and pass several weeks in the State.

The Mechanic to his Love.

I am a hard metallic mass,
Amorphous, unadjustable,
But through Love's crucible I pass
And all that is combustible

Is burned away: the slag, the scum,
Leaving the rest ethereal,
And I come out, "by rule of thumb,"
In finest form material.

I pass through Love's severest fire,
Consuming my pretension,
Cast in the mould of your desire
And shaped to your intention.

You chip my rougher fragments off
And file my less projections,
And plane me down so none may scuff
The end of your inventions.

You gauge my line and forge my "form,"
To your exactive measure,
And while my heart grows red and warm
You finish at your leisure.

You turn, and spin, and twist me 'round,
You harden and you temper,
Until to my remotest bound,
Paratus I'm and Semper.

Now, as I'm finished to your mind,
The question seems apropos:
Am I, of all the human kind

Your final choice, *quid pro quo?*

COLD CHISEL.—[Boston Journal of Commerce.

Dips, Spurs and Angles.

When the chippers and dabblers are unloaded,
Are unloaded,
And the mud from bulls and bears has ceased to come,
Ceased to come;
When the Boreel Building capitalists are goaded,
Lists are goaded,
Oh, then it is that stocks begin to hum!
Gin to hum!

—[Wall Street Daily News.

Shall California be divided into two States—is being agitated by the press of that State.

Mining matters in general are very dull. Interest in the Maine mines is looming up.—[N. Y. Daily Mining News.

An ordinary servant girl gets twenty-five dollars per month in Ouray. An editor gets three dollars a week and chews gum.—[Solid Muldoon.

Case of Nevada insolvency; Profits from teaming, \$2,700; in stock speculations, \$4,500; total, \$7,200. Losses in stocks, \$40,000. Assets, \$50 worth of clothing exempt from execution.

It is said that among the latest mining booms is that of Shirt Tail Canyon, Custer County, Colorado. The leading mines are the Blue Nose, Penny Poker, Rheumatic, Blind Pig and Bay Steer. They all run high in gold, and Shirt Tail is coming to the front.

The Boston Post is responsible for this: "A Nevada miner was recently attacked with lockjaw, but the doctor got the victim into a game of poker, gave him four kings and kept four aces himself, and after the showing of hands the miner's jaw was working out profanity that could be heard three miles away.

Mr. Hiram A. Cutting, State Geologist, of Vermont, has been testing the capacity of different sorts of granite to withstand heat. He tested twenty-two specimens of the best known quarries, and found that while all were unaffected by 500 deg. Fah., damage usually began at 600 deg., was serious and frequent at 800 deg., and at 1000 deg. all the specimens were ruined, the stone from Mount Desert standing the test perhaps better than any other. He gives it as his opinion that the effect of water on heated granite is rather apparent than real.

The population of the globe may be roughly assumed at 1,421,000,000, divided thus: Europe, 309,000,000; Asia 824,000,000; Africa, 109,000,000; Oceanica, 4,000,000; America, 85,000,000. It has been calculated from the mortality tables of known countries that the annual number of deaths throughout the world is 35,993,350, or that, in other words, 79,706 persons die each day. On the other hand, the balance of population is more than kept up by births at the rate of 104,800 per day. Seventy new lives are ushered in every minute of the 24 hours.—[*London Times*.

The rich men of California, who have made their money from mines and mining stocks, have acquired by experience the nerve to take hold of mines, and where they lose in one instance they make it up in another. They know how to open and develop the mines, and to manage them afterwards. They do not manage their mines in a "picayunish" scale but put their money in generously, with the hope and expectation of a generous return. At the same time, the Little Pittsburg matter may be useful to the eastern mining investors. It will teach them not to look at stock values alone, as they fluctuate widely at times, while the real value of the mine they represent may remain the same.—[*N. Y. Daily Mining News*.

The Berlin *Borsen Zeitung* says that the Prussian capital has long contained a jewel of fabulous value, the news of whose existence was first made known by the reports of the last session of the Polytechnic Society. This noble stone is a sapphire, and is the property of one of the members of that learned body. It weighs a little more than six ounces. The jury of the Polytechnic Society have settled its value at the frightful sum of 64,000,000 marks, or £3,200,000 of English money. It need hardly be said that such a treasure is not very likely to find a purchaser at such a price. Its present possessor has placed his treasure in State custody for the sake of his heir. All the experts who have scrutinized the sapphire agree that it is a genuine *Corundum*. The "sappir" of the books of Exodus and Ezekiel, like the "sapphires" of Pliny, were probably our *lapis-lazuli*.

The term "Tenderfoot" originated in Montana, and was applied by Californians to immigrants from the States east of the Rocky Mountains, who were generally pilgrims who had followed an ox team into the country. In return the Tenderfeet called Pacific coast people "Other Siders." The same terms of distinction are in use in Leadville now. The Tenderfeet got a foothold in some camps in Montana, and as they hated the Other Siders cordially, one of the latter had a poor show in a camp occupied by a majority of the former. The Missouri Tenderfeet were mostly the leavings

of Price's army, long-haired, wicked-looking citizens, and they were very wicked when there were about twenty of them to one Californian. If they were first in a gulch they would not allow Californians to prospect in it, and at the entrance of such gulches it was quite common to see the sign "No outsider allowed in this gulch."

The enormous quantity of liquor that is consumed in Mexico can be estimated from the fact that in the city of Mexico alone the consumption is at the rate of a pint a day for every inhabitant, and that a special train, *tren de pulque*, runs twice a day between Apam, a village in the heart of the maguey district, and Mexico city, the freight from pulque on each train amounting to between \$700 and \$800! The maguey yields another liquor, which is not so deleterious in its effects either as a drink or as an object of labor as is pulque. This is the *vino mezcal*, which is a species of brandy, distilled from the juice of the maguey; but it can only be drunk as a *liquera*, and is not unlike Jamaica rum. It is manufactured in large quantities at Apam, where the dry and cold temperature of the great dusty Mexican plain produces the maguey of the most fiery quality.

If only a dollar in bullion is obtained for the dollar expended in the search, there are two dollars in specie where there was one before; and if it be true, as it is said, that he who makes two blades of grass grow where only one grew before, is a benefactor of his race, then how much more of a benefactor is he who doubles the quantity of gold and silver in the world. The search for hidden treasure is as legitimate and as praiseworthy as any of the industries of life. Any legislation that discriminates against the business is unjust, and should be discountenanced. Gold is the life current of commerce. There is no danger that the stock will be too large. So long as it remains the medium of exchange between one part of the country and another, and between one nation and another, it will be well to encourage every effort to increase the home supply, and thus strengthen the foundations of finance and trade.—[*Idaho World*.

The entire population of the world placed side by side, and allowing two feet to each person, would encircle the earth twenty times. The State of Maine, New Hampshire, and Vermont, taken together, are as large as England. Any one of the States of Georgia, Illinois, Iowa, or North Carolina, is as large as England. Kansas is as large as England and Scotland together. Ireland is about the size of Maine. France is more than twice as large as England, Wales and Scotland together. Texas is thirty-five times as large as Massachusetts, or as large as Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, Ohio, and Indiana combined. The entire population of the United States could be provided for in the State of Texas, allowing each man, woman and child four acres of land. The entire population of the world could be provided in the United States, allowing each person one and a half acres of land. The continent of Australia will just come within the limits of the United States.

Three years ago there was, for a time, but one man living on the site of what is now the populous city of Bodie, and that man was only waiting for the snow to go off to leave the country. There are mining camps to-day in each of which there are but five or six men, and any one of these camps is liable to repeat the history of Bodie. There are other mining camps which at one time contained upwards of ten thousand population that are deserted. When a mining district comes into prominence, it fills up with people with a rush, and in most cases is "overdone;" when a district begins to fail, there is a stampede out of it. These are phases of the ups and downs of a mining country. Take a mining town that is in the rush period and a town-lot may command \$10,000. Take it a month afterwards, when it is in the stamped period, and the same property could not be sold

for \$15, and its owner would probably be glad to trade it for a pair of blankets with which to go prospecting for a camp. But all mining districts do not thus go up like a rocket and come down like a stick. When the rush subsides, the population then begins to accommodate itself to the resources of the place and the surplus population disappears in a great measure and the places settle down to business. This has been the history of all the mining towns of merit on the coast that are old enough to have passed through the necessary conditions; though it is qualified somewhat by the fact that in nearly all mining towns there is a surplus of miners and laboring men.

DRESSING MAINE ORES.

BY R. A. VARDEN, M. E.,

OF THE ACTON CONSOLIDATED S. M. CO.

(3.)

The location of dressing floors or works is a point that should not be hastily decided upon, so that a few remarks drawing attention to the most desirable features may be acceptable.

1st.—Select a site on the side of a hill or slope. In order to obtain a cheap automatic process so that the stuff can pass from one machine to another by gravitation, without the loss of manual labor, elevators, paternosters, etc., to bring it to the requisite height for feeding, this condition is most essential, and in many cases the water used in the upper parts of the works will prove serviceable, with the head it would possess, for driving machinery or working slime separators. Where there is a lack of fall one sometimes sees most ingenious contrivances for raising stuff and water, but it must be borne in mind that without expending power in one form or other this cannot be done. If steam be used as a motor it will be readily demonstrated by the increased consumption of fuel.

2nd.—Be sure of an ample supply of water. This is the most important item, as with insufficient water dressing becomes a very slow, expensive and unsatisfactory operation, and an expenditure of money in procuring it will soon amply repay the outlay. The usual rule given for estimating the necessary quantity for dressing 100 tons per day is what will flow through a 4 inch pipe with a 6 ft. head during the time the works are running. The water should be as free from slime or sand as possible, the purer the better, for it is easy to perceive that by using dirty water it is apt to introduce among the ore the waste that we wish to get rid of. Mines are frequently put to considerable expense on account of having either to lift the water to the ore, or carry the ore to the water. As for instance at Dalcouth mine the water has to be pumped to the surface which could otherwise be discharged at the adit, 300 feet deep, for dressing purposes, and even then has to be used several times over; and at East Pool where the ore is carted 2 miles to the water. In estimating the available supply always take the dry season into consideration.

3rd.—A convenient situation with regard to the exit from the mine. With reference to underground workings the exit can be either through a tunnel or shaft. In the former case the highest point of the works should not be above the mouth, on account of having to take the heavy wagons of ore up an incline; but in the latter the landing brace or mouth of the shaft can be raised by timberwork to any reasonable height, although this should not be resorted to without it is absolutely necessary. In locating near the tunnel or shaft care should be taken to leave sufficient space for dumping mine waste.

4th.—Dumpage room for the waste. Works are frequently met with extending to the bottom of the slope they are situated upon causing thereby considerable trouble by not having room for dumping the tailings, consequently water-courses are obstructed and even extra machinery has sometimes to

be erected in order to get rid of the worthless stuff. In dumping the waste it is often worth keeping the different sorts as distinct as possible; for example, some of the stuff may contain a small percentage of mineral but which cannot at present be extracted at a profit, or some substance that is now of no commercial value, but in this age of improvements some process, and such inventions as are constantly being made, may be found applicable to them. Waste heaps of long abandoned mines are being constantly reworked as improvements in machinery and metallurgical processes are made, frequently resulting in considerable pecuniary success. Numerous instances could be mentioned among the Cornish tin mines, the Spanish and Servian copper mines and German lead and zinc mines where such heaps have been treated at a profit. Now all this tends to show the advisability of keeping the so called waste in different parts of the dump, provided it can be done without much trouble or expense, so that in case at any time any of it can be utilized it may be in a more concentrated state than if the whole be mixed together.

It will seldom be found that all these conditions can be fully carried out at one mine, nevertheless it should be made an object to meet them as nearly as possible, for dressing floors once laid out are not easily altered in respect to these points, and by attending to them even at an increased outlay considerable saving in working expenses will be made. In laying out works always remember that at some time it may be necessary to extend them, consequently a plan should be chosen that will permit of it being done as easily as possible. I had at first intended to have devoted a few paragraphs to each manipulation the ores are subject to during the process of dressing, but I find that without going into the subject pretty thoroughly and illustrating with diagrams the result would be most unsatisfactory. I will therefore in my next letter pass on to the all important subject of sampling.

[The following Report was intended for publication last week, but came too late to be inserted.]

Antimony Mine at Carmel.

BY A. E. BARCLAY, BANGOR.

On Tuesday last I went down to visit the new Antimony mine, which is being opened at Carmel. The mine is situated about one-half mile from the depot, and is reached by an excellent coach road. It is on the property of John H. Dorr and Mr. Hutchings, and is leased for mining purposes by Dr. H. F. Hanson, Messrs. H. L. Leonard, J. F. Parkhurst, J. C. Pitman, and John F. Dorr.

A discovery of antimony was made some forty years ago in a boulder lying by the side of a stream which runs through the property, and was declared by a well known geologist to have been brought to the place where it was discovered, long years ago, during the glacial period, and that the rock in which it was found did not belong to that district at all. However, Dr. Hanson, who never had faith in that theory, wished to find where the boulder really originated, and went systematically to work to discover it. After trying the ground in several places during the past winter, in all of which signs of antimony appeared, the present site for a shaft was decided upon. It is within a few yards of the stream before mentioned, and is now down some 12 or 14 feet. At first they dug through about 5 ft. of clay or surface and then came to 4 feet of gravel holding boulders of rock very heavily charged with ore, then to another 3 to 4 feet of fine gravel, all mixed with fine ore, when what is evidently the solid ledge was reached, and at the time of our visit was exposed some 2 feet deep. The shaft, which was begun 15x15 on the surface, after passing the clay, was timbered so as to leave 12x8 ft in the clear, and shows about 3 ft of quartz in center containing quite solid ore, which was taken up in large pieces. There seems to be a pretty well defined wall at the east end of shaft where the ore does not show much, but no wall has been encountered at the west end, so it is not

known what the width of the vein really is. That end of the shaft is however highly charged with ore running through it in small veins. At present the ore appears to be gaining in quantity and thickness as they sink, and a large vein of it may be looked for at no great depth. The strike of the lode is N. N. E. and S. S. W., and the dip appears to be nearly vertical.

About 500 feet south of the present shaft, a trench was dug some 25 feet long by 8 or 10 feet wide and after passing through 10 to 12 ft. of clay, a wide vein of quartzite, with green chlorite containing veins of white quartz was found, charged with iron pyrites, and small quantities of antimony ore. This lode is evidently the same as the one in which they are now sinking. The ore is the Grey Sulphuret of Antimony, or Stibnite, and if it should continue as pure as at present will fetch a high price in the market to work for the metal. Last week 100 lbs. of the hand picked ore was sent to Mr. Nickerson, of Somerville, Mass., from which he extracted 20 lbs. of pure Metallic Antimony. The ore on account of its ready fusibility is easily separated from its gangue by a process called liquation, or simple melting out of the ore, which might be easily and economically done at the mine, and would thus save the freight on the accompanying rock. If desirable the ore could be run down into the metallic state on the spot without a very large outlay of money. The ore at present contains small quantities of silver and it is possible that as depth is attained this metal may gradually come in and take the place of the antimony in which case the mine will be a most valuable one.

To conclude, the situation of the mine, within such a short distance of the Maine Central Railroad, the present solid nature of the ore and the distance the lode can be traced, altogether give the proprietors great hopes of the property soon becoming a most valuable one.

Maine Mining Exchange.

The Maine Mining Exchange Company will soon be organized. It will be a syndicate for the purpose of protecting the interests of Maine mines. The company will have a capital of \$500,000, and will assume control of the Maine Mining Exchanges in Boston and Bangor, and another one soon to be organized in Portland. It is the intention to employ competent experts to visit the mining regions, and only those mines possessing merit will be listed upon the Exchanges. The public will in this way be protected against wild cats and worthless properties. The company will also be able to protect stocks to a great extent, from sudden shrinkages. Many of the wealthiest and most prominent mining men in the state are engaged in the enterprise. An institution of this kind, if managed properly, as we have reason to think from the character of the men connected with it that it will be, can but be immensely beneficial to the mining interests of the state, and is something which has long been needed. We trust that all who are interested in our mines will give the enterprise their cordial support.

[From the Boston Globe.]

A Mining Boom in New Hampshire.

The Globe correspondent, having for years cherished a belief that the old granite hills of his state would yet prove themselves useful for other purposes than affording scanty subsistence to hard-working farmers, has paid particular attention to mining matters, and has now trustworthy evidence from good authority that the mining "boom" in Maine will be followed by a corresponding one in New Hampshire. Capitalists from New York, Massachusetts and New Hampshire have for some time past been quietly working, until they have assured themselves that some very valuable property is here and in localities where it can be profitably worked.

In 1860 a silver-lead vein was discovered in Warren, about twenty miles northwest of Plymouth, on the Boston, Concord

and Montreal railroad, and operations were immediately commenced upon it, over \$20,000 being expended in tunneling, sinking shafts, erecting buildings, etc. With the imperfect methods then in vogue, some of the ore "panned out" as high as \$85 per ton, but the need of the proper machinery and other causes finally led to the abandonment of the work. This property with about 100 acres in the vicinity, has been purchased by William G. Burnham, and operations will at once be commenced. The mine is located about three miles west of Warren village, on "Ore Hill," in a formation of gneiss, micaceous schist, etc. A strong vein has been exposed for 500 feet in length, varying from 3 to 20 feet in width. It is composed of quartz, argentiferous galena, blende, copper pyrites, etc. A shaft has been sunk perpendicularly seventy-five feet, and the vein worked about thirty feet from the shaft, being found to consist of almost solid ore. South of this shaft a tunnel 150 feet long has been opened. There are now already mined about 800 tons of ore that can be shipped to the smelting works in one week's time, which is expected to yield a much better return when "dressed" with modern machinery than the ores smelted in '60. Negotiations are now being made for the control of over twelve miles of the adjacent mineral property. The company has buildings, hoisting and pumping engines, etc., and everything in complete order to begin work. A stock company is to be organized at once with a capital of \$1,000,000—200,000 shares. The headquarters of the company are at Warren, and all the work of the mine will be under the supervision of Mr. Burnham.

A journal devoted to the mining resources of New Hampshire will commence publication at an early day. It will be under the charge of able writers and the public will then learn more of the "bonanzas" that are locked up in the mountains of the granite state.

The Mining Interest.

Is it not time for a community long wedded to railway speculation to consider the inducements offered by the growing mining industry? The mining interests present a market a thousand fold more inviting either for investment or speculation. It has the solid basis of a bullion product of \$100,000,000 a year, and capable of enormous expansion. It is represented in the market by securities now selling frequently at less than one-half their certain and demonstrated value. Its legitimacy is further indicated by the large investments made by the leading men of every line of business activity. Its safety and its exceeding capacity for profit are demonstrated by many well known examples of remarkable success. It lacks only one thing. It has secured abundant support from conservative investors, but it has not yet enlisted the attention of the speculators. Very little of the speculative capital of the country has ever been interested in mining. The stocks of the best mining corporations languish because there is no speculation. Now that the railway market forbids any rational investment, is there not a chance that the unparalleled attractions of the mining market may receive consideration.—[*N. Y. Daily Mining News*.]

The Losses in Stocks.

The losses of the street, occasioned by the last bear movement, have been so great, and the slaughter of the lambs so disastrous, that the conservatives are not yet very enthusiastic believers in another very speedy bull market, or in much of an immediate rise. The shrinkage on some long accounts, which were closed up by forced sales on Tuesday morning, when the market was at the lowest ebb, was simply astounding, and the recuperation must necessarily be gradual and slow. The account of a prominent operator in Reading, in one broker's office, was closed out day before yesterday with a loss of \$340,000. Another large dealer who had profits of \$1,500,000 had no balance on the credit side of his account on Tuesday night. A

"small dealer who had profits of \$117,000, had a loss of \$2,000 ter the break." One of the leading German bankers of Broad street thinks it is a very remarkable and gratifying fact that, considering the recent shrinkage of two to three hundred millions of dollars, there have been no failures or suspensions at the Stock Exchange.—[*Wall Street Daily News*, May 13th.

CORRESPONDENCE.

Washington County.

Editor Maine Mining Journal:

The more eastern portion of what we, in our vanity, are pleased to term the "Silver Division" is less known than that portion in which are located the mines of Sullivan and Gouldsboro. So in this communication I will take the liberty to inform the curious about the mines in the towns of Cherryfield and Harrington.

The shaft on the Cherryfield lead has been sunk to a depth of one hundred and ten feet since last October. The drifts, from their present level have been run something like one hundred feet. The ore from the start to the present time has been of the most satisfactory character and will safely bear comparison with that of either the Gouldsboro or Sullivan in richness or beauty. The new shaft-house, 82x36, is almost completed, the other buildings have been removed to their new abiding places, and when the new machinery is placed, which will be within a fortnight, this mine will certainly be in a condition to do business. The Cherryfield having the lead east of Gouldsboro, of course much depends on its showing, but if it only retains its present appearance no one will complain.

At Cherryfield also is the wonderful Sprague's Falls vein, which was considered rather a curiosity in its way before our present depression came on; but, as even such giants as the Sullivan and Gouldsboro are now passed by unnoticed by the discriminating public, it seems hardly worth while to more than casually refer to the great Diamond ledge. This is a quartz vein ranging from fifty to one hundred feet in width, traceable for miles across the property of William Freeman, Esq., and retaining throughout its entire length the same gigantic structure. Some work was done here last year by the direction of Francis Worcester, and scientific examinations were made by practical and theoretical miners, all joining in reporting that there was plenty of pay ore here providing considerable money should be laid out in opening the lode and putting it into shape. It is almost needless to add that the faith in futurity is not quite "hefty" enough in this State yet to open anything—even an oyster—if the process is expenditure instead of income.

At Harrington, Mr. Worcester after doing extensive prospecting last season has started a shaft on a long stretch of vein, or combination of veins, this spring, and is now bringing to the surface undeniable evidences of rich ore—"Undeniable evidences" being now regarded as coin only; I still use the word advisedly. The ore extracted from different portions of this lead would be considered an infallible sign of coming prosperity for that region, were that region located in the heart of the Andes or Himalayas; but, being here, a small minority only dare whisper, "That looks first-rate; score one more for enterprise."

Now I wish to say, in as pure a spirit of prophecy as Henry G. Verner ever experienced when crouching of bad weather, that it needs no microscopic examination of the future, to see the few energetic spirits who now buoy up our flagging enterprise, cheered and lauded by the identical gapers who lately have been reading the "Herald's"—"I told you so!! I told you so!!!" with admiring gratification and open-mouthed awe.

Prof. W. Frank Stewart.

As a little squib from the Virginia (Nev.) *Enterprise* has been copied into some of the Eastern newspapers accompanied by remarks calculated to convey an entirely different impression from that intended, we are permitted to publish the following letter to Prof. Stewart from the editor of the *Enterprise* and writer of the article in question. It will be seen that the people in the East do not seem to fully understand Nevada journalism.

VIRGINIA CITY, Nev., May 11, 1880.

FRIEND FRANK:—Yours of May 2d is at hand—came yesterday. Sorry to hear of your accident. Several have asked me to-day if I knew just how badly you was hurt, I having made a jot of your misfortune in this morning's paper. As for the little clipping you send me I can assure you that no malice

was in my heart when I wrote it and I am sorry to see it twisted into that shape in the East. The fact is I never thought about it going East or being noticed (taken account of) there. I happened to see in the evening papers a paragraph to the effect that Professor Stewart had all he could do at examining and reporting on mines, and it just struck me that down in Maine among the steady-going old farmers an old Pacific coaster would be the next thing to the Almighty and would be able to give them as many mines as they might want. It was merely a little home brag in regard to what one of our people would be able to do down in Maine and if thought of at all was so taken here. The whole of the meanness was tacked to the little paragraph by the papers down East, who probably resented the idea of Mainites being green enough to put up with mines sliced off just anywhere. I see that it don't do to joke with these people. It is a wonder they did not get hold of another squib I wrote. You see many geological terms and phrases sound very strange and ponderous to the uninitiated and after quoting some of the expressions in the report of one of the Eastern geologists I took some similar words from one of your reports and called attention to the fact that our Pacific coast man had "mashed the other fellow into the ground." Here such fun is taken merely as fun but down your way they appear to have a way of surrounding such things with a frame of their own which give a different tone to the picture.

Judge C. C. Goodwin will leave here in a few days for Salt Lake to take editorial charge of the *Tribune*. He takes his family with him and will probably become a permanent resident of Mormondom.

Stocks are down to nothing here on the Comstock. People here always go to extremes when we are in "bonanza" and it is the same when we are in "borasca." Some are so far gone with the blues as to say that soon they will stop working the mines here—just as if they had ever stopped working mines in any part of the world where they once began. As good a thing as any man could do just now would be to buy Ophir, Sierra Nevada and Union Con., out and out, put it in his pocket and sit down on it. He could well afford to pay the few assessments liable to be levied before a development is made somewhere that would send them to ten times their present price.

Old friends ask for you here nearly every day. Give my regards to Tom Cahill, Wilkie Darling and other Comstockers.

As ever, yours,

DAN DE QUILLE.

How to Manage a Colorado Congregation.

Bach Run, as any map may fail to show, is situated in the Colorado mining districts and the Baptist church is presided over by an able and athletic preacher. On the fourth Sunday in February last a collection was taken up for the Franz Josef Land Mission and the plate was passed around by one of the deacons. There was present a miner from Red Gulch, who was anxious, as he phrased it, to "put up" for the Franz Josef heathen, but who had no coin smaller than a twenty dollar gold piece. When the plate reached him, he inquired in a low tone, "How much is the ante?" The deacon told him he could contribute whatever he chose. "Then, replied the ingenious miner, 'I'll chip in a dollar,' and thereupon he put in his twenty-dollar gold piece, and undertook to withdraw nineteen dollars. This the deacon objected to, on the ground that no change was given at that establishment. A struggle ensued, in the course of which the plate was upset, and the entire congregation rushed to pick up the scattered money. Had it not been for the presence of mind of the presiding minister the entire amount already collected would have been absorbed by reckless persons eager to "jump the deacon's claim" as the local papers subsequently expressed it. The minister fortunately happened to be an old Californian who thoroughly understood the true way of dealing with a Colorado assembly. Drawing a heavy revolver and leveling it on the edge of the pulpit he demanded "order" in a stentorian voice. "The brethren" he remarked, "will please take notice that I've got the drop on them and any brother who declines to go to his seat, or who touches any of that money, will have a funeral at his house to-morrow at two o'clock P. M. Our mining friend from Red Gulch will please let go the deacon's necktie or he is a dead man." This address, together with the minister's known reputation as a pistol shot, instantly restored order, and the deacon picking up the scattered money, including the twenty dollar gold piece,

resumed the collection, and the service proceeded without further interruption.

Quenching a Fire in a Coal Mine.

"Anthracite," writing to the *Tribune* from Wilkesbarre, Pa., gives an interesting account of the means lately employed in quenching the fire in the Stanton shaft at that place. The fire began with the burning of the breaker on the night of May 3, 1879. The shaft, 840 feet deep, was filled with water, and when it was pumped out it was found that there was still fire in a part of the mine (a slope up from the bottom of the shaft, about 500 feet in length and 200 feet in vertical height), from which the water had been kept by the inclosed air, which had no means of escape.

The fire was burning so briskly that they were compelled to let the shaft fill with water again to prevent the entire mine from getting on fire. To get the water to rise into the A shaped apex of the coal measures where the fire was, they employed Mr. John Muirhead, of Wilkesbarre, to drill a hole six inches in diameter to strike the burning gangway at the highest point to let the air out, so that the water would rise and fill the cavity.

At the depth of 662 feet he found indications of the internal fire, and the borings came up very hot. At 667 feet his drills got fast in the heated rock and coal, for, instead of coming out in the gangway, he was in the solid coal at one side of it. His method of getting his drill loose was rather novel. After all the known methods had failed he had 670 feet of inch pipe, weighing 1008 pounds, attached to the beam of his drilling machine, and connecting the pipe with a powerful pump he forced a stream of water through the pipe at a pressure of 200 pounds to the square inch. The end of the pipe was fitted with a circular steel bit, and by working the drill apparatus he succeeded in removing the obstruction and getting the drill out, after drilling to the bottom of the vein—685 feet.

The air could not escape; so to remove the partition of coal between the gangway and the hole, they put down a cartridge of giant powder 10 feet long, charged with 100 pounds of giant powder, and fired it with a battery. The powder had only about 30 per cent. glycerine, and did not prove strong enough to burst the barrier. Then they put in a larger charge of 80 per cent. glycerine and burst the coal out at the bottom. The water filled the hole within 50 feet of the top.

The main interest in this experiment will be reached after the water is pumped out and they have seen what the effect of a large charge of nitro-glycerine has been at that great depth and under the great pressure of over 600 feet of water. Torpedoes are used in oil wells, but the exact effect is not known.

Sold Out.

"All the Kearney-street stores are making sweeping reductions," observed a fond wife to her loving husband.

"That means that you want to make a sweeping reduction of my slender means, already thinned down to a minimum by unfortunate speculations in mining stocks, as the newspapers say when some blundering fool jumps into the bay," responded the loving spouse.

"How can you talk so, dear, when things are selling dirt cheap and the advertisement says it is the opportunity of a lifetime."

"Yes, that's right, call me dear. That's just what your shopping is—dear as Albion at ten dollars a share."

"Do you know my opinion of you?"

"I suppose you think I'm a brute; but I don't care; I'll acknowledge I'm a brute."

"Brute! Brute! Why that don't begin to express it. You're a lop-sided, lantern-jawed, pigeon-toed, knock-kneed, under-shot, hare-lipped, weak-spined, crooked-nosed, squint-eyed old

fraud of the first water, eighteen carats fine. It were base flattery to call you a brute, you miserable, insignificant, half-souled, no-brained, bow-legged, paralyzed, spavined old specimen of a superannuated hypothermose."

"But, darling—"

"Don't you darling me, you old scrub. I'll go home to my mother to-morrow. The idea of me marrying a man who talks back to me about money when every store in San Francisco is selling goods at a disastrous sacrifice for thirty days only."

And then she wept.

And next day he went down town and sold all his stocks and gave her the money to buy dry goods with and she ransacked every dry goods store in town and drove eleven clerks to insanity and all about one spool of cotton, and had that sent home.

And when he saw stocks going up faster than the Palace Hotel elevator, and himself without the wherewithal to get in on the rise, he only said:

O, ever thus from childhood's hour;
I've seen my fondest hopes decay.
O, how it makes a fellow sour
To see his stocks thus slip away.

—[Stock Report.

LODES, LEADS AND VEINS.

NOROMBEGA.—Under the superintendency of Mr. Emery the work of sinking the vertical shaft is continuing and rapid progress is being made.

CONSOLIDATED HAMPDEN.—The work is progressing very favorably. Supt. Cahill is doing excellent work and during the first week of his superintendency the shaft was sunk 8 feet. The shaft has now reached a depth of 142 feet and will be continued to 200 feet before drifting will commence. The shaft has not yet left the vein and fair ore is being taken out.

LAWRENCE.—The new machinery works very very satisfactorily. The bottom of the shaft is in handsome ore.

HARRINGTON.—The work is progressing expeditiously and rapid progress is being made in sinking the shaft.

CARMEL.—The Carmel Antimony Co. are working 12 men, and the prospects for a bountiful supply of ore are very flattering. The vein is about 6 feet in width.

OLDTOWN.—A sample sent from the Oldtown mine to J. C. Griswold, assayer, of San Francisco, returned gold, \$78.56; silver, \$552.76; total \$631.32. Work will be commenced at the mine in a few days.

SILVER QUEEN.—The President of the Silver Queen Mining Company was in Corinna last Friday. He expresses himself as much pleased with the outlook, and says that the ore shows much better than he expected. The shaft is now down between twenty and thirty feet, and four men are now employed. It is their intention soon to continue operations day and night.—[Newport Times.

KATAHDIN IRON WORKS.—The furnace is doing some remarkable work, having made on Monday of last week 17 1-4 tons, and on Tuesday and Wednesday week 17 1-2 tons of first quality car-wheel iron on 83 bushels of coal to the ton—a feat believed to be unprecedented in the history of charcoal iron making. Twenty-five four horse teams are now employed, fifteen of them hauling iron to the depot and the balance hauling ore and charcoal to the furnace.

FOUR KNOX.—The upper part of the shaft has recently been very thoroughly cribbed. The shaft is about 70 feet in depth.

NORTH CASTINE.—The shaft is down eighteen feet from the top of the ledge, and the ore is constantly improving in quality. A derrick is now being placed in position and very shortly a night crew will be put on. Mr. C. F. Peck, a gentleman who has had twenty years' experience in the western mines and thoroughly posted in everything pertaining to the management of mines has taken charge of this property and

intends to push the development of it along fast. Lumber was sent down from this city early this week to build a blacksmith shop with and for timbering the shaft. The company will be organized Saturday, June 5th, at the Maine Mining Exchange in Bangor.

TAPLEY.—A large crew of men are at work, and ore is being taken out in large quantities. Both walls of the vein have been disclosed, and the ore channel proves to be more than 30 feet in width.

LINCOLNVILLE.—Samples, assayed from the new shaft of the Lincolnville Gold and Silver Mining Co's mine by State assayer F. F. Phillips, containing gold to the amount of \$9.34 per ton, another assay by Fred R. Page, mining engineer, of Camden, containing of silver \$2.30 and of gold \$16.53. These samples were taken about six feet from the surface.—[*Camden Herald*.]

APPLETON.—Prof. Hitchcock visited the Appleton Copper Mine recently and made a very favorable report which appears in the *MINING JOURNAL* of this week. The shaft is now down fifty feet and the ore steadily improving. This mine has been visited by men who are competent to judge of the quality and quantity of the ore, and they pronounce it to rank as second in the state. Work is being pushed with a night and day crew, and there never has been any of the Treasury stock put upon the market and that shows that the owners have confidence and are not afraid to put out their own money to develop the mine.—[*Camden Herald*.]

DOUGLASS.—The grounds of the Douglass company continue to be the scene of great activity. The erection of the mill is progressing favorably. The machinery is all on the ground, the crusher and boilers and engines are in place and the large brick chimney 70 ft. in height is completed. The prospects of the mine were never as flattering as now.

BISBEE.—The annual meeting of the stockholders of the Bisbee Copper Mining and Smelting Co., for the election of officers, and for the transaction of any other business that may legally come before the meeting, will be held at the office of the company in Belfast on Tuesday, the 8th day of June next.

ATLANTIC.—The crosscut is now in 60 feet and handsome copper ore is being taken out. The crosscut will be extended till the north wall of the vein is reached. A drift is being run to the west from the crosscut on the vein.

CITY OF BOSTON.—The shaft is making good progress in sinking and on Saturday last a depth of 56 ft. had been reached. Mr. O'Connell has charge of the work.

TWIN-LEAD.—Rapid progress is being made under Supt. Duff. Some copper ore is being taken out of the crosscut and a rich ore body will probably be reached soon.

YOUNG HECLA.—Supt. Duff of the Young Hecla Copper Mining Co. under date of June 1st reports as follows: "Eighty-six feet is the depth attained in our shaft to date. The rock continues very hard being mostly quartz showing large feeders of copper coming from the south. We are making wonderful progress and with no unforeseen delay shall commence to cross cut for the ore body in two weeks. All goes well."

WHITE STAR.—The shaft has reached a depth of 37 ft. Mr. O'Connell is superintending operations.

JERSEY.—The shaft is now down 30 feet. Supt. O'Connell of the City of Boston is in charge.

GRANGER.—Day and night crews are now employed. Progress is being made at the rate of a foot and a half per day and a depth of 36 feet has been reached. The shaft house built in the form of a pagoda is now completed and is a very unique structure.

MCFARLAND.—The new buildings are completed and the whim is running well.

WAUKEAG.—The shaft is now timbered to a depth of 142 feet. During the week the crosscut has been extended 8 feet. Are

now putting in pump and air pipes; the rock in the face of crosscut is now showing unmistakable indications of the close proximity of the vein.—[*Bulletin*.]

SULLIVAN.—The timbering of shaft No. 2 is now completed to a depth of 100 feet, and the further sinking of the shaft will be resumed next Monday. The foundations for the mill are nearly completed, and the carpenters are already at work on the frame of the building. A portion of the mill machinery is expected to arrive here per Steamer Mount Desert to-day. Ore of a high grade carrying native silver is still being extracted from the drifts of the old shaft.—[*Bulletin*.]

MILTON.—Excellent progress is being made putting up mill which will be completed and ready to make a trial run next week. The work has been done in a thorough and substantial manner, and there is no reasonable doubt that the mill will do the work it is intended to do in a satisfactory manner. Are setting up a horizontal engine outside of shaft No. 1, which is intended to drive a Cornish pump when needed, and to run other machinery now becoming necessary to do the construction work for this mine cheaply and speedily. Shaft No. 1 is down 136 feet; bottom in fair blasting material. Shaft No. 2 has attained a depth of 123 feet, and the material in bottom has improved very much since last report. The rock shows some native silver, and improves with every foot gained in depth.—[*Bulletin*.]

CONNERS.—The shaft has reached a depth of 32 feet showing a magnificent vein, with all the general characteristics of the Sullivan lode. There is now hardly any doubt as to the continuance of the Sullivan lode in the direction of the Connors. The finding of ore precisely of the same general nature as that of the Sullivan, is to say the least, very significant.—[*Bulletin*.]

BOSS OF THE BAY.—The vein is found to be 25 feet in width and showing magnificently.

GOULDSBORO.—The new shaft house will be raised during the next week; machinery all ready to be put in place. Good progress is being made in tunnel, which is showing very fine ore. Pay streak a little over two feet in thickness. A force of men are at work on dam and foundation for concentrating works, which will be built and equipped with all possible despatch.—[*Bulletin*.]

CHERRYFIELD.—Work on new buildings progressing rapidly and approaching completion. Superintendent Leonard is in Boston this week selecting machinery for the mine, which will shortly be put in place. The ore from eastern drift is very fine. Men are now stopping and accumulating a considerable quantity of ore in drifts, which will not be raised until the new hoister is in place.—[*Bulletin*.]

MAINE ACTON.—Upon the occasion of a visit to the Acton district several months since, we commenced at the Dirigo and followed the lode down for a distance of two miles or more in order that we might be able to give a correct report of the prospects of the several companies there located and the developments which had been made along the line. Our report was accordingly made up from the results of our observations. If any statement made by us at that time was not in accordance with the facts, we should as upon any and all occasions hasten to correct the error.

Before reaching the Butler farm the veins are to all appearances lost, that is to say they are covered with soil and do not come to the surface. That they exist as far or farther south than this property we have never had the slightest doubt, but the few cross-cuts and prospecting pits which had been made failed to show them and of course the line of direction they might take would be somewhat uncertain. Mr. Butler, the owner of the farm above mentioned, told the writer that several years ago while digging a well near his buildings he struck into a vein of very hard, pure white quartz, but at that time no thought of looking for mineral occurred to him. A mile or

more below this place have been found croppings which while proving the existence of veins *do not* in view of the fact that they have not been found on the intervening properties prove that they are a continuation of the "Acton lode" although it is quite probable that future developments may show that such is the case. Be that as it may, we, at that time, felt warranted in making the statement that "below the Butler farm the veins had not been traced," and so far we have not received sufficient evidence to the contrary to cause us to retract.

The Maine Acton Silver Mining Company was organized some time since by prominent residents of Saco and Biddeford to develop the property next south of the Butler farm. Several of the officers are personal friends of ours, and we could certainly have no object in misrepresenting them or their property, and we sincerely hope that it may prove to be one of the most valuable on the lode. However, we have no intention of being "bull-dozed" by any one, and accordingly we think a brief statement may be in order. Shortly after our report upon this district appeared, several of the officers of this company commented sharply upon our statement that the veins *stopped* at the Butler property. We quietly told them that nothing of the kind was said and referred them to the files of the *MINING JOURNAL*. A few weeks since we received a letter from one of the officers stating that their Superintendent had just arrived in town with the information that he had struck the ore vein at a depth of 19 feet. This item of news we published in our next issue. The letter, however, wound up with the remark that "it is now evident that veins did *not* stop at Butler property." We were naturally somewhat indignant at being thus wilfully misquoted, and wrote him to that effect, requesting him whenever he had occasion to quote any of our statements to try and have them a little nearer correct. In reply we received the following letter, which for several reasons we see fit to publish.

SACO, Me., May 20, 1880.

DEAR SIR.—Any man of sense who *knows anything* about the Acton lode *himself* and not what he is told by certain interested parties, knows that the vein has been traced a long distance south of the Maine Acton property, beyond and towards Hanscom's Corner, so called. If you are going to publish a mining paper fair to all it is about time you learned the fact that two or three men have not got all the mines in Maine.

It is rumored—mind I do not say it—that there are certain parties who control you and your paper; at any rate appearances indicate that such is the fact.

Yours very truly,

We are sorry to be obliged to repeat for the benefit of our friends of the Maine Acton, what we have several times asserted—that no one but the persons whose names appear on our editorial page have any connection whatever with this paper, and no one else can express an opinion through these columns except over his own signature. Furthermore, we wish to state most emphatically that neither the fear of having our motives misunderstood nor of being suspected of having been "bought up" by interested parties shall ever deter us in the slightest degree from expressing an opinion or making a statement. Our opinions may at times be at fault; we only give them for what they may be worth; but our statements, we are always ready to stand by, and furnish the necessary proofs when called for. It has been our aim to be fair and impartial to all, and we flatter ourselves that we have succeeded as well as the average newspaper; more we cannot expect. And here ends the Maine Acton business, except so far as our mission as a *news-paper* shall lead us to give from time to time the developments and actual condition of the property.

Nuggets.

The strike at Leadville is ended.

The new American Mining Exchange was opened in New York on Tuesday.

A plumbago mine has been discovered about five miles from the city of Biddeford.

A property in Lubec adjoining the Lubec mine is soon to be put on the market by prominent men.

The antimony mine in Carmel has been examined the past week by an expert from Massachusetts.

A large number of mining men have been in Bangor this week attending the political conventions.

And now J. L. Young of Sherman has found the bonanza mine upon his farm.—[*Katahdin Kalender*.]

The Maine Press Association will leave Portland July 12 for a week's excursion to the Pennsylvania coal regions.

It is reported that Col. Pulsifer, of the Boston Herald, has recently been buying largely of Maine mining stocks.

Mr. Henry B. Darling is erecting three dwelling houses in Blue Hill on property leased from the Atlantic Mining Company.

We understand that work on the Bowker mine, in Marshfield has been suspended for the present, the Company having sent samples of the ore away to be assayed.—[*Machias Union*.]

The Robinson House in Bucksport is very popular among mining and traveling men and the excellence of its table is widely known. Mr. Moses is a model landlord and the high reputation the House enjoys is due largely to his superior management.

Lumbermen report that the spruces are dying by the hundreds in the Maine forests. A worm is eating the life out of the trees. Pine timber near the streams is almost a thing of the past, and it is feared that the Maine lumber trade will decline greatly within the next decade.—[*Kennebec Journal*.]

Mr. Angus McIsaac has bonded a portion of Mr. Apt's property on Kendall's Head, in this place. A rich specimen of mineralized quartz taken from this property has been left at our office. Mr. McIsaac has had some experience in prospecting and thinks this property the most promising he has yet seen.—[*Eastport Sentinel*.]

The gold and silver mine on the eastern part of Swan's Island promises to be a paying institution. The working force has been increased by the addition of several new miners. We understand that a new mine in the vicinity of the above, is soon to be opened. In other parts of the town indications of the precious metals have been discovered, which will undoubtedly be developed in due time.—[*Rockland Opinion*.]

A correspondent of the Rockland Opinion furnishes the following items from Isle au Haut: There is a small force at work on the Webster claim, Head Harbor, and they say that they have struck the main lead and it is rich—Work on the Goss mine, at the west end of the Thoroughfare, is progressing well. An interest in it was sold last week to Belfast parties for \$6,000 cash.—Capt. James Turner, 2d, has bonded one-half of one of the six leads that run across Burnt Island to a Portland Company for \$2,000, \$100 down and the rest in one year. They have had mining experts to examine it, and they pronounce it rich.

We have received from Mr. Donelan, of East Surry, specimens of copper ore and quartz taken from a vein on his property. The specimens are very good and warrant development. A correspondent writes: "The vein is a true fissure running east and west and dipping well. The specimens were taken out 20 inches below the surface. The property is situated on the Bay at the mouth of Union River and 2 1-2 miles from Ellsworth. The vein shows from low water mark and runs up into the bank in the pasture. Where first opened on the shore it was four inches wide but it has now widened to about sixteen or twenty inches. There are several veins on the property which runs back from the shore 360 rods. A wharf for

shipping can be built at very little expense. It is expected that a shaft will soon be sunk on the property."

Metal Market.

Following were the quotations in New York, June 1:

Silver Bullion.....	1.14 1/2	Zinc.....	7 1/4
Gold Bullion.....	1.00 1/2 @ 1.00 3/4	Spelter.....	6
Pig Lead.....	4 1/2	Lake Copper (ingots).....	18
Tin (Straits).....	16	Antimony.....	17

The base metal market was rather quiet.

Bar Silver was quoted in London to-day at 52 1-6d per ounce, English standard.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JUNE 2, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
AZTEC.....												
Atlantic L. S.....	14 1/2	14 1/2	14 1/2						15 1/2		15	
Allouez.....	1 1/2		1 1/2						1 1/2		1 1/2	
B. Antimony.....	21		20	20					20		21	22
Blue Hill Copper.....	4 1/2		3 1/2						2 1/2		2 1/2	3
Calumet & Hecla.....	215	220	219	220					221		220	
Catalpa.....	1 1/2	2	1 1/2	2					1 1/2	2	1 1/2	2
Copper Falls.....			7 1/2	7 1/2					6 1/2	7 1/2	7 1/2	
Duncan Silver.....	2		2						2		2	
Franklin.....	13	13 1/2	12 1/2	13					12 1/2	13	12	13
Harshaw.....	18 1/2	19	19						19			
Huron.....	3 1/2	3 1/2	3 1/2	4					3 1/2	3 1/2	3 1/2	3 1/2
Mesnard.....	1		1						1		1	1 1/2
National.....	1 1/2		1 1/2						1 1/2	1 1/2	1 1/2	1 1/2
Oscoda.....	31 1/2	32	32						33	35	33	35
Pewabic (new stock).....	15 1/2	15 1/2	14 1/2	15					14 1/2		14 1/2	
Phoenix.....									24 1/2		24 1/2	
Quincy.....	23 1/2	24	25 1/2	4					24 1/2	25	24 1/2	
Ridge.....	2 1/2	4	3 1/2	4					3 1/2	4	3 1/2	
Silver Islet.....	15		13 1/2	14					13 1/2	14		14
Star.....			6						8		8	8 1/2
Sullivan.....			8						8 1/2		8	8 1/2
Waukeag.....	4		4 1/2									

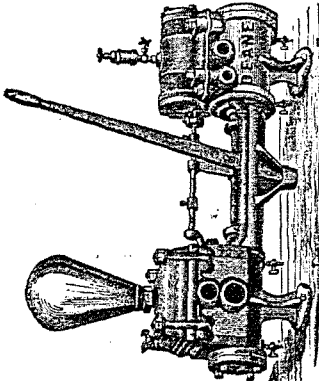
The Boston Stock Exchange and Maine Mining Exchange were not open to business on Saturday and Monday last.

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JUNE 2, 1880.

NAME.	THUR.		FRI.		SAT.		MON.		TUES.		WED.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
ACON.....	1 75		1 75						1 75		1 75	
Ashley.....	60		60						60		60	
Ammonoosuc.....	1 00		1 00						1 00		1 00	
Atlantic.....												
Boston Acton.....	15		15						15		15	
Blue Hill.....	75		75						75		75	
Con Hampden.....	6 00		6 00						6 00		6 00	
Corbitt.....	1 00		1 00						1 00		1 00	
Cherryfield.....	1 50		1 50						1 50		1 50	
Dartmouth.....	1 10		1 10						1 10		1 10	
Deer Isle.....	4 00		4 00						4 00		4 00	
Douglas.....												
Favorite.....	40		40						40		40	
Forest City.....	60		60						60		60	
Fort Knox.....	2 25		2 25						2 25		2 25	
Gouldsborough.....												
Grant.....	20		20						20		20	
Harrington.....	1 50		1 50						1 50		1 50	
Ilwaco.....	2 50		2 50						2 50		2 50	
Milton.....	30		30						30		30	
Mineral Hill.....	75		75						75		75	
Norombega.....	10		10						10		10	
Ow's Head.....	80		80						80		80	
Pett Menan.....	2 25		2 25						2 25		2 25	
Portland Acton.....												
Robert Emmett.....	7 50		7 50						7 50		7 50	
Scoville Hill.....	3 00		3 00						3 00		3 00	
Sullivan.....	5 00		5 00						5 00		5 00	
Twin Lead.....												
Waukeag.....												
Young Hecla.....												

MANUFACTURERS — OF — **Steam Pumps** — FOR — **EVERY POSSIBLE WORK.**



DEANE STEAM Pump Co.
HOLYOKE, MASS.

HENRY McLAUGHLIN,
Front Street, - - Bangor,

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IRGERSOLL ROCK DRILL CO.,
Deane Steam Pump Co.,

Lafin & Rand Powder Co.'s

MAGNETIC BATTERIES,
Wires and Fuses.

Copeland & Bacon's
HOISTING MACHINERY.

H. W. Johns' Mfg Co.'s

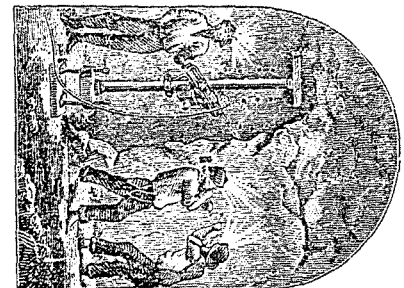
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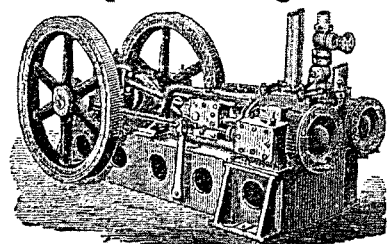
High Explosives,

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MINING SUPPLIES.



IRGERSOLL
ROCK DRILL CO.,
11-2 Park Place, N. Y.,
Manufacturers of
ROCK DRILLS,
AND IMPROVED
Air Compressors.



ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Laughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1873.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$300,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7 1/2 Lisbon St., Lewiston.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$300,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President and Treasurer, D. H. Bisbee, Camden; Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Matlocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Beading, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CONSOLIDATED ACTON SILVER MINING CO.
On the Acton Lode, Acton, Me.
Capital, \$1,200,000; 240,000 Shares. Par value, \$5. Non-assessable.
President, George P. Wescott; Vice President, John S. Morris; Secretary, Charles D. Clark; Treasurer, A. A. Dennett. Directors—G. P. Wescott, J. S. Morris, W. F. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Ferguson Haines, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.
The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.
Offices—22 Exchange St., Portland, Me., and 28 Congress St., Boston, Mass.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGowan, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors, T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge, J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPTEN SILVER MINING CO., Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Laughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Laughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
THOMAS CAHILL, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Snt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, W. Darling, F. H. Clergue, C. H. Hucks, James Nealey, Jr., Chas. E. Field.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hinckley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAACS S. GRANT, Supt.

EDGEWOGGIN SILVER MINING COMPANY
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardiner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meaher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Deunet.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, C. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$300,000; Shares, \$5 each.
President, A. E. Herriek, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herriek, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Lafan, Jeremiah Wooster.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.
Office, No. 1 Pemberton Square, Room 4, Boston.
BROWNELL GRANGER, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 50,000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Walter Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000. Shares 10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.

President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.

W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.

President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Pliske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.

Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.

President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. I. Huxford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Ham, Jackson; John H. Gordon, M. Chase, J. I. Watts, I. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.

C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.

Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice-President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.

Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Tutton, Blue Hill; J. S. Coudon, Orland.

TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.

Capital, \$300,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.

President, Wm. H. Darling, of Blue Hill; Vice-President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.

GEO. D. HOLT, Supt.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.

Office—29 Exchange, corner Milk Street, Portland, Me.

Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.

President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.

GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emory G. Ingalls, of Bangor; Alvin Rodditt, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.

EDWARD B. SMITH, Supt.

LITTLE SEE SILVER MINING COMPANY,
Lamorne, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares \$1 each.

President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Sweet, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.

President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.

SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY.
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.

President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.

Office 2 Commercial Street, Winterport, Me.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.

President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.

Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBART, Supt.

MC FARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLaughlin, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.

President, Guy W. McAllister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAllister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.

F. W. CROSBY, Supt.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 shares.

Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer, of Biddeford.

HOWARD P. SOULE, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.

President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.

MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.

Capital, \$500,000. Shares, \$5.00 each.

President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.

C. E. LANE, Brooks; Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.

Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.

President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.

A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.

Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.

Office, No. 43 Milk Street, Boston; Rooms F and G, 3d floor.

President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Dunclee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndal Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.

P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.

President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.

WILKIE DARLING, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.

Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.

President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.

E. J. SWAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 28,000 Shares.

President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughron, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.

ROBERT O'ROURKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1879.

Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.

President, Geo. B. Brown, Boston; Secretary, B. P. Tilden, Sullivan; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.

B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.

SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.

Capital, \$500,000; Shares \$5 each.

President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.

W. H. CLAPHAM, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.

RICHARD SNOW, Supt.

TWIN LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.

President—Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.

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WAUKEAG SILVER MINING COMPANY.
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President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital Stock \$500,000—50,000 shares, par value \$10 each. Unassessable.

B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.

Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Collin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me.

Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, 32,000 Shares.

President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor; Vice-President, Charles Hamilton, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamilton, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

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FRANK D. PULLEN, Agent.

Bangor, June 1.

Bucksport & Bangor Railroad**CHANGE OF TIME, MAY. 3d, 1880.**

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.35	1.30 7.30
Arrive in Bucksport,	8.45	2.45 8.30

Direct connection is made with the two through trains on Maine Central via E. & N. A. Railway; also with Bangor & Piscataquis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arrival of morning train from Bangor, reaching Blue Hill at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection east, leave Bucksport 1.00 P. M.

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JOHN M. HALE & CO.

Ellsworth, March 2, 1880.

BUCKSPORT AND BLUE HILL STAGE LINE.

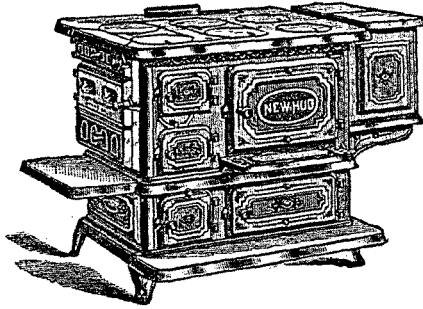
The stage leaves Bucksport daily, Sundays excepted, at 1 P. M. for Blue Hill and Sedgwick.

Returning, leaves Blue Hill, daily, Sundays excepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to Blue Hill, and by the Blue Hill driver through to Bangor.

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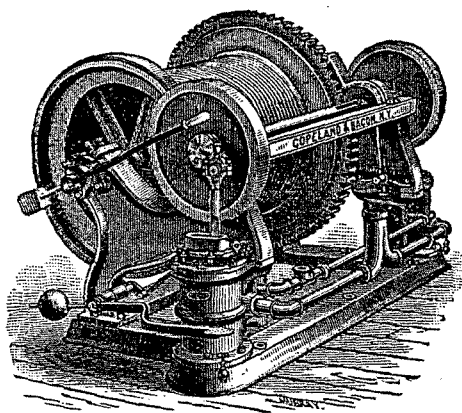
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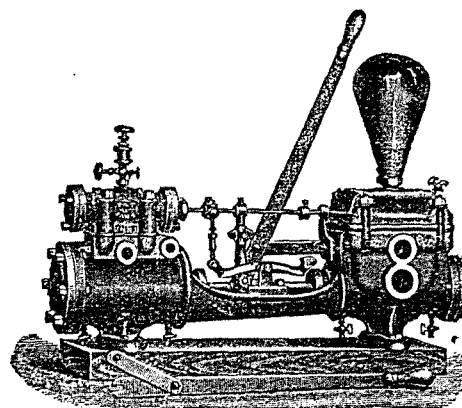
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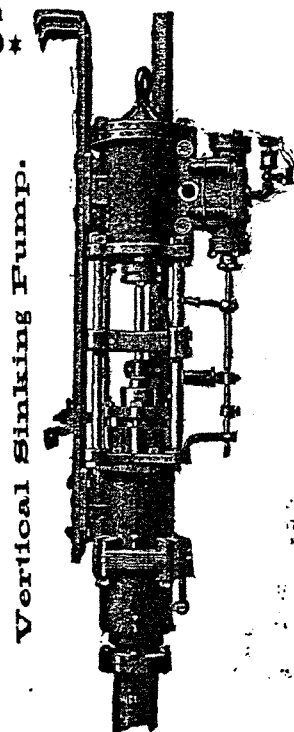
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[Entered as second-class mail matter.]

Vol. I. No. 24.

BANGOR, MAINE, JUNE 11, 1880.

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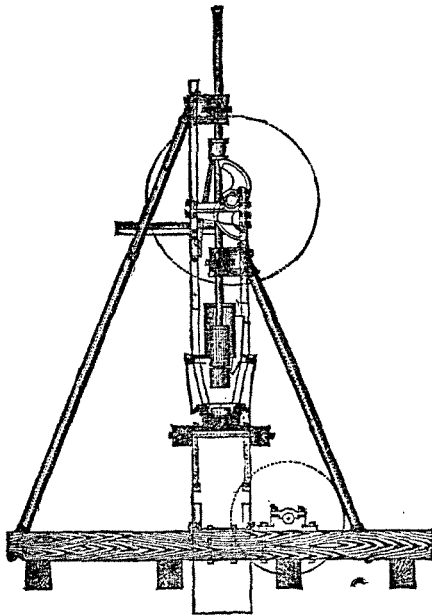
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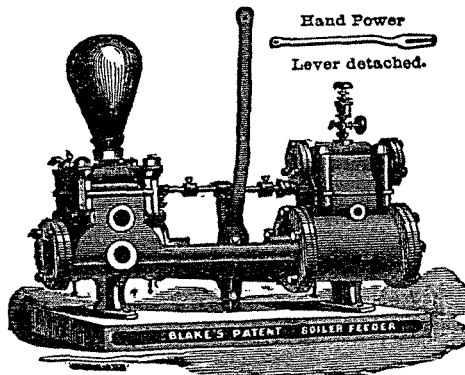
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E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

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MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JUNE 11, 1880.

THE PRESENT SITUATION.

It is a difficult matter for people whose pockets are filled with mining securities which they can only dispose of at a great sacrifice, to be brought to see any advantages which are likely to accrue from the existing depression and present state of the stock market. Nevertheless, although some individuals may suffer, the ultimate effect upon the mining industry of this State as well as upon future legitimate stock transactions must be beneficial.

In the first place it has had a tendency to put a sudden check upon a business which was fast assuming a wild-cat phase. The ease with which stocks of new companies organized upon entirely undeveloped properties in doubtful locations could be disposed of at good prices left open a too promising field of operations for unscrupulous men who knew little and cared less about the real mineral wealth of the State, and they were just beginning to take advantage of it when the decline in the market and consequent falling off in enthusiasm took the wind out of their sails.

Another evil tendency which has been in a measure suppressed is this; whenever a prospect-hole had been opened which had presented a fair showing, a general scramble ensued to secure properties along the line of the vein or lode in either direction sometimes for miles, and form companies and issue stock at once. Now, there is not so much inducement to organize new companies and as in most cases the original mines are being steadily developed, the owners of adjacent properties will have the benefit of *their* prospecting and experience, those which are worthless will be proved to be so, and the valuable ones will not have lost anything by remaining idle, as their increase in value will show.

The facts with regard to Maine mines are these: since the early discoveries of mineral in this State, thousands of people have been looking for them who never looked before. The result has surprised and astonished beyond measure not only the people in general, but scientific men and geologists

as well. All who have kept pace with the discoveries and given them their careful attention are confident that many of the deposits are not only rich in the precious metals but practically inexhaustible. The residents of the State have shown their confidence by investing (too freely in many instances) their surplus funds in schemes for developing it. The methods, owing largely to a lack of necessary knowledge, have been slow and tedious, and to-day we find ourselves loaded with stocks, funds for carrying on further work needed, a depression in the market which prevents our unloading with any satisfaction, and our mines not yet in a condition to give returns for capital invested, or to attract the attention of capitalists in the great moneyed centres.

This is the most gloomy view which can be taken of the situation. Where shall we look for relief and when will it come? This is easily answered. To commence with, pay no heed to the Yahoos on the outside, whether newspapers or individuals who are continually croaking. With regard to the newspapers whose only stock in trade is growling at something or somebody, bear in mind that there is a large class of inveterate old grumblers in the world and that they must have organs to represent them; they have never caused any serious injury and they never will.

As we have before stated, the older mines have kept steadily at work during these months of depression, constantly increasing their working forces and adding new machinery from time to time until now there are more men engaged in mining in Maine than ever before, and the mines themselves are looking far better than at any previous time in their history. The Blue Hill mines are far exceeding expectations in their showing of ore both as regards quantity and quality, and the Douglass Company expect to have their mill in running order by the first of July; the Sullivan is in richer ore than has ever before been found in Maine, and many thousand tons of valuable ore in sight and on the dump await the completion of the stamp mill which will be in a few weeks. The Gouldsboro and Cherryfield are in large bodies of high grade ore, and are now engaged in putting in steam machinery of the most improved pattern, while at Gouldsboro a Bradford concentrating mill is being erected as rapidly as the materials can be brought together, with several hundred tons of rich ore on the ground beside it. The mines in the vicinity of Franklin and in other portions of Hancock county are looking finely, work on the three Hampden mines near Bangor is progressing rapidly under the most favorable conditions, richer developments are being made in the Acton district and wonderfully rich discoveries have been made and new properties are being opened up at Castine, Brooksville, Sullivan, and other places throughout almost the entire State. Who says the mining industries of Maine are on the decline? Let him stand up and show himself. He knows not what he is talking about, so pay no heed to him. Within a few short weeks our mills will be turning out real merchantable bullion. Summer visitors sojourning in Maine will visit the mines and see with their own eyes the work which is being carried on and the ore lying in sight, and the news will be spread far and wide over this broad land. The stock market will in due time recover from its demoralized condition, and everything will be prosperous.

Holders of Maine mining stocks, take courage. Be not

too hasty in disposing of what may seem to you at times like worthless certificates. If you are positively certain that you are holding some that are utterly valueless (for there are plenty of that sort afloat) burn them at once we beg of you, and don't attempt to sell them and by so doing throw discredit upon this great industry, but bear your loss like a man, try again, and profit by your former experience. But the time will come, nor is it very far distant, when reliable stocks of Maine mines will be in demand at good prices, and if we allow ourselves to become easily frightened and throw overboard at a great sacrifice what has cost our hard earnings to procure, it may not only seriously injure the cause but be a source of regret for a long time to come.

Stocks and Bonds.

[From the Mining Review.]

Some of the financial journals have taken occasion to speak of the uncertainty of mining stocks, and in a measure implying that they were not as reliable as other securities. While we have no desire to defend mining stocks at the expense of other corporations, we would call attention to the fact that it is extremely difficult to discriminate against any class of stocks, for the same laws govern all and the same causes affect one class as another.

The stock operator has a most difficult and trying occupation; he figures against a changeable and uncertain quantity, moved by ten thousand influences, no one of which can be accurately measured and estimated; there are not only natural causes, but artificial ones, which continually act and react upon the sliding scale of prices.

At the present time there seems to be a peculiar condition of the stock market which the oldest brokers cannot explain or fathom. There seems to be a general apathy in regard to stocks of all kinds. New mining companies with the most flattering prospects are disappointed that there is no demand for their shares, while the older and well established companies, with mines open, reputation well earned, and upon the firmest foundation, find that practically their stock has lost its attraction. The same condition of affairs prevails in the chief stock markets of the country; there is a general apathy and indifference, and the class or character of the stock seems to offer no temptation.

There seems to be an exhaustion of interest, which may be a reaction from a forced activity or a calm before the eager impetuosity of the coming storm. We feel that it is a condition of readjustment, and when the movement begins again there will be a wiser discrimination between the stocks offered; that the valuable will be again largely in demand, while the worthless and uncertain will be more than ever neglected. The present condition of the market is peculiar. The past season has been a good one for railroads, and they can show a large increase in earnings and present a most favorable report of their operations, yet their stock continues to go down with the improvement of the reports. The large crop of grain on hand, and many other signs of business, make it certain that the railroads will largely increase their earnings; hence the depression and fall in prices of stock cannot be explained on any reasonable basis. When money is plenty, as at present, the stock market is usually buoyant, but the reverse we find to be the fact.

Whatever may be the causes which have produced the present peculiar and inexplicable condition of the stock market, we feel that with railroads adding largely to their accumulations, and a flattering prospect for a long continuance in the same direction, the prosperity which is affecting favorably the value of all other securities, and the development and management of our mining companies, with the unquestionable importance of the large tracts of the best mineral lands held by them, taken in connection with the unusually low prices of stocks and the surplus of money easily obtained, there will be a decided change in the condition of affairs. We only fear that the change may be too sudden and be carried too far in the other direction. There is already, we believe, a general opinion that, considering all the prospects, the Little Pittsburg stock at its present price presents most decided advantages to the purchaser, and this one case illustrates hundreds of others with mining companies where the price is far below what the value of the property would warrant.

All these points are well known to the keen operator and capitalist, and we only fear, as we have indicated, that at the first move there will be a general rush to secure what have long been known to be prizes. But as the field is so large and there are so many good stocks, the probability is that this question will assume more of a business character and be conducted upon a business basis. Capitalists do not like the San Francisco manipulations which are struggling to find a place and power in the Eastern market, and will demand that business shall be conducted in a legitimate manner. We are of the opinion that this is one of the chief causes of the present state of affairs so far as mining stocks are concerned.

The Hours of Fate.

In the period between midnight and six in the morning, the animal vital processes are at the lowest ebb. It is in these times that those who are enfeebled from any cause most frequently die. Physicians often consider these hours as critical, and forewarn anxious friends to respect them. From time immemorial those who have been accustomed to wait and attend on the sick have noted these hours most anxiously, so that they have been called by one of our old writers "the hours of fate." In this space of time the influence of the life-giving sun has been longest withdrawn from man, and the hearts that are even the strongest beat then with subdued tone. Sleep is heaviest and death is nearest to us all in "the hours of fate."

We would like to have some of our scientific men and philosophers tell us if there may not be some connection between these well-known facts and the phenomena mentioned in this paper several weeks since, and vouched for by old miners of many years experience; viz, "that between the hours of 12 and 2 o'clock at night, if there is a loose stone or bit of earth in a mine it is sure to fall. About this time it seems that everything begins to stir, and immediately after twelve, although the mine has been still as the tomb before, you will hear little particles of earth and rock come tumbling down, and if there is a caving piece of ground in the mine it is sure to give away." May it not be that the same great vital force known to exist in everything that has

life also exerts its influence over inanimate objects and in fact over the whole universe? It would also seem that the sun is the great life-giving power and the source of all vitality. We would like to see this subject discussed by those who have made these matters a special study.

Personals.

MR. DICKSON, of the Acton, arrived in this city on Monday evening.

PROF. W. F. STEWART has returned from Portland and is now stopping in this city.

B. S. GRANT, Esq., President of the Waukeag, visited Sullivan during the past week.

H. GREGORY, JR., President of the Douglass, was in Bangor the early part of the week.

We received a pleasant call on Saturday last from CAPT. PENDLETON of Blue Hill who sailed up the Penobscot in his yacht "Haze."

DR. COLLINS, President of the East Blue Hill Gold and Silver Mining Company, called on the MINING JOURNAL early in the week.

PROF. F. L. BARTLETT, State Assayer, was at Jonesport, East Machias, and Marshfield last week looking at mineral lodes for parties interested.—[*Machias Union*.]

We received a friendly call on Friday last from MESS. J. R. GROSE, President, and THOMAS DALBY, Treasurer of the Ashley Silver Mining Co. The gentlemen were on their return to Boston from Sullivan where the annual meeting of the company was recently held.

Dips, Spurs and Angles.

He who doth the market buy,
Shall roll in untold riches,
In summer, though, the wretched bear
Shall wear his winter breeches.

—[*Wall St. Daily News*.]

A ton of gold is worth \$601,875.

Maine has one hundred and three newspapers.

A Mining Exchange is soon to be established in St. Louis.

The flow of thirteen gallons of water a minute constitutes a miner's inch.

The Treasury Department has purchased 520,000 ounces of silver for coinage.

There are more snide mining papers in New York city than brokers.—[*Silver Cliff Miner*.]

The Eureka *Leader* says the Comstock people have given up all hopes of finding a bonanza, and are now perfectly happy if the pumps are kept running.

It is hinted that the ores from the leading Comstock mines are being graded below \$40 per ton, to evade the payment of the \$2 royalty to the Sutro tunnel.

A brick the size of an ordinary cigar box, made of the counterfeit nickels collected in the street car cash boxes, is one of the curiosities which adorns the new street car office in Memphis.

The newspaper owes its origin to the custom which prevailed in Venice in the sixteenth century of reading aloud in the public places a manuscript of the news of the day, prepared by authority.

The year 1880 sees more activity in mining than was ever known before. There is no boom in stocks, as yet, but the market already displays what may fittingly be termed preliminary sensitiveness.—[*Stock Report*.]

The present strike at Leadville, of five thousand miners for an advance in wages from \$3.50 to \$4 per day, is not received with as much rejoicing by stockholders as some previous "strikes."—[*Engineering and Mining Journal*.]

Two more fools are going to attempt to cross the Atlantic in a cockle-shell of a boat seventeen feet long. It would be more sensible for them to throw away their lives among the Utes where their hair at least would be saved.—[*Ruby Hill Mining News*.]

The Bodie *Free Press* takes the following cheerful view of the situation: "Keep Denis Kearney in the House of Correction, the grasshoppers on the other side of the Sierra Nevada, the mining assessments paid up, and California will prosper in this year of our Lord 1880."

New Jersey now blossoms out as a gold and silver mining country. The Plainfield bonanzas are creating intense excitement in that malarial section, and a correspondent assures the public that the streets of that fever and ague-stricken town are macadamized with gold and silver.—[*Daily Mining News*.]

A Boston capitalist employed a Eureka mining expert to examine and report on a mine. The expert made a careful examination and an elaborate report, for which the Boston man sent him a fee of one dollar. The *Leader* says the Greenback has been sent to the Smithsonian Institute as "a rare specimen of simon-pure, unadulterated, compound essence of Boston gall."

The Comstock is only a prospect, and at present a huge affair, in which a great deal of money is being sunk. As the *Bulletin* says: "While it is true that the Comstock lode has not been rated so low as now for a long time, it does not follow that the mines are even worth the money they are selling for. From any information in possession of the public touching these values we fail to see any present profit in buying the twenty-eight leading mines for \$10,000,000 or \$12,000,000, which is what they are nominally selling for just now."

What is supposed to be the largest pumping engine in the world has recently been set up at the Union shaft on the Comstock lode in Nevada. The initial cylinder is 5 feet 5 inches in diameter, with a stroke 6 feet 9 inches, and the other cylinder is 8 feet 4 inches in diameter, with a stroke of 8 feet 3 inches. The big cylinder weighs 43 tons and the small one 30 tons. The fly-wheel is 37 1-2 feet in diameter and weighs 110 tons, the hub weighing 15 tons and revolving on a shaft 2 feet 3 inches in diameter. The water flooding the three mines, Sierra Nevada, Union and Mexican, will be easily handled by this huge machine.

Mines may peter out in a month. On the other hand the silver mines in Mexico have been successfully worked for three hundred years. Mines in Spain and Germany have yielded a regular output for eight hundred years, and the tin mines of Cornwall in England are said to have been productive four centuries before Julius Caesar landed in Great Britain, and are still yielding without any sign of decay. All over Europe the traveller meets with tremendous aristocrats, with titles, splendor, and boundless wealth, whose money, for countless generations, has been delved from the bowels of the earth.

The meritorious mines of Colorado have not been injured in the slightest degree by the recent decline of stocks in New York. Those which are capable of production are producing as largely as at any time prior to the break. If speculation should cease entirely to-morrow it would create

suspension of legitimate industry. The miners would go on as energetically as before, and the country at large be all the better for it. Happily, the price of gold and silver has no connection or sympathy with the price of shares, and every gold mine in the country will be worked if shares decline to zero.—[*Inter-Ocean*.

"What's this unit rule the politicians talk about?" asked Jones of Colonel Solon yesterday. "It's this way," said the Colonel: "If you approve of the unit rule, you vote to have every man vote the same way every time. It's mighty convenient, as yer'll see if you ever git on a delegation. I was on one wunst an' we had the unit rule resolution solid, so when I sez, 'I vote the delegation tak' suthin,' of course they all had to vote the same way, an' nobody could dissent, and I don't b'lieve they would nuther if the rule hadn't been in force. But it makes it more solid yer see, an' yer chairman can have the hull sum put down on the slate easier'n he could if we war all divided an' was takin' drinks with every other candidate. 'Sides, yer see, one candidate can't come in an' ask jest one or two up for a drink, fur it wouldn't do any good, becoz of the unit rule; so he'll have to ask the whole caboodle an' no' favor."

His voice, albeit not clarion, has been heard in the halls of Congress, and, by virtue of a right conferred by a free and enlightened people, his has been the proud privilege to recline in the luxurious cushions furnished by Uncle Sam, and pensively gaze through the stained skylight that casts a softened light on Congressional pates in the national capitol. But, on the particular morning of which we speak, he was snugly ensconced in one of Casey's barber chairs, and a tonsorial artist, with a heart chock full of happiness (he had called the turn five times in succession the night before) and stomach full of beer, was applying the lather with a charming disregard as to quantity or location.

"And how will you be shaved this morning?" blandly inquired the knight of the razor and strop.

"How?" exclaimed the irate Ex., as he glared at his interlocuter through a mountain of suds, "In silence, be god, sir." And silence reigned supreme.—[*Esmeralda (Nev.) Herald*.

Sarah Bernhardt stands no critical nonsense. One evening a gentleman in the audience was rude enough to hiss her. She interviewed him next day. She told him she was conscientiously doing her best as a histrionic artist and begged that he would kindly favor her by pointing out her defects, in order that he might correct them. He became her most enthusiastic admirer at once. It is also related of her that she went after a newspaper reporter, who had doubtfully criticized her personal charms, at his own lodgings thusly: "Is that my own hair or not? Pull it, sir!" Then she gently grabbed his hand and bit a finger or two half off. "Are these false teeth?" "Oh? no," howled the repentant sinner. "And now look here, sir," said she, commencing to unhook her dress. The poor fellow gave one furtive side glance and plunged wildly head first out through the window. He was no Comstock reporter. Just let Sarah come to the land of practical prospectings, criticisms and explorations, and she'll not put on any of that sort of style with impunity.—[*Gold Hill News*.

TREATMENT OF ORES.

BY R. A. VARDEN, M. E.,

OF THE ACTON CONSOLIDATED S. M. CO.

(4.)

Under sampling is understood the process or method of selecting a small portion, for assaying purposes, of a lode or heap of ore. The importance of taking a real average sample cannot be easily overrated, for either the result will give a lower percentage than is really contained in the whole, which in transacting sales will lead to heavy losses; or it

will show a higher value than the ore warrants, thus being the means of drawing one into speculations that would otherwise have been avoided, or of inducing buyers of ore to pay too high a price for it.

Simple as at first sight the operation may seem of taking a few pieces "promiscuously from the dump," it is one that requires great care in carrying out, and it is impossible to accomplish it in the simple manner alluded to. Some men are apt in a new prospect to take one of the best pieces of rock they can find, and from its assay value calculate the contents of the whole vein, which is frequently the cause of disappointments experienced in new mines, and forms the basis of some wonderful calculation for producing a fabulous dividend in an equally astonishing short space of time.

If an average sample is required from a heading or drift the following method may be employed. Square up the end, and clean the bottom and sides of the level in the vicinity of the place from which the sample is to be taken, and break an equal amount all over the face about 6 to 8 inches deep, being careful to leave it squared up as at the commencement. Should blasting be resorted to, or in fact in any case the bottom of the level should be laid with boards, or better, sacking, especially for rich friable ores, in order to save as much as possible of the fine dust, frequently the richest part, which might otherwise not be included in the assay. Having collected all the stuff thus broken, send it to the surface to be handled in the manner described presently.

This is certainly a rather long and tedious method but possesses the advantage of being reliable, and in some instances forms the only means of arriving at the true value of a lode. (gold quartz.) In European lead mines a little practice will enable the miner to estimate the yield of silver by eye quite accurately enough for all practical purposes, for having once determined by assay the amount of silver in the galena it may be taken as a permanent figure, for instance 30 ozs. silver per ton of lead ore of 75 per cent. metallic lead; then it is known that 2 1-2 inches of solid galena 6 feet high and 6 feet long will weigh a ton, therefore the conclusion can be drawn at once as to its approximate value. However, should the galena, as it usually does in this country, contain varying proportions of silver owing to other richer silver ores occurring with it then the only plan is to make a regular assay of an average sample.

In sampling a pile of dressed ore equal care must be taken to get an average, for in every heap samples taken from different parts of it will vary in a greater or less degree according as the dressing machines are in good working order or a difference in the quality of the ore itself occurs from day to day. The usual method of taking a sample is as follows: Let the heap be spread out in the form of a square or circle having a uniform depth of about 18 inches, then have two channels or divisions cut through it at right angles to each other making them large enough to leave the floor exposed, the stuff so removed being equally distributed over the pile. A few shovels full are now and then scraped from the sides of the channels from top to bottom in several places which is carried into the sampling house. After sufficient has been collected in this manner (do not take too little) it is next placed on a clean floor, usually plate iron, and the larger pieces are broken up with hammers, after which the whole is well mixed and spread out and quartered as before. One quarter is now selected and the other three discarded, the part retained pounded down fine, passed through a fine sieve, mixed again and quartered until reduced to a sufficiently small bulk when quantities of about 1-2 lb. are done up in strong paper or bags for assaying. Should it be desired to determine the water weight it should be taken in hand at once for a small sample would very soon dry of its own accord.

As a matter of historical rather than practical interest I will mention a few old customs connected with sales of Cornish ores, some of which are still retained in a modified

form. The payment of a royalty or "lord's dues," that is rent to the owner of the soil for the privilege of carrying on mining operations, was and is now paid in a fractional part of the produce of the mine. In olden times the ore was divided into as many heaps as there were shareholders and one for the "lord," then at the time appointed each of those interested would attend with horse and cart and carry away his heap or "dole," as it was called, that had been previously assigned to him by lot, and dress, smelt or sell it independently of the others. The payment of dues is now paid in money and is calculated from the actual returns of ore sales, of which the lord claims 1-12, 1-16, 1-20 or whatever is specified in the lease. Copper ores are sold by the ton of 21 cwt., originating in the miners allowing the smelters 1 cwt. in every 20 over and above what was paid for, to compensate for loss in transport, water weight, etc.

The most curious and apparently useless custom is still in use with the tin samplers. On the dump a different measure is used from that in the assay office in "trying samples" for controlling the dressing works, but in selling ore proper weights are used. A sample is taken from the heap, in the manner already described, and a certain quantity by measure operated upon; thus far the old beer and ale measure is used as a standard in which the gallon contains 282 cubic inches, but in assaying the old wine measure with a gallon of 231 cubic inches is the standard. The measures are 12 gallons=1 barrow; 1 gallon=32 noggens; 1 noggen=1-4 pint. The object of this is to allow a margin for loss in dressing.

Monthly Report of Supt. Darling of the Revere S. M. Co.

To the President and Board of Directors of the Revere S. M. Co.

GENTLEMEN:—In making this my regular report of the progress made in the work for the month of May, I will briefly state that the shaft has now reached the depth of thirty-five ft., having been sunk 18 feet since my last report. There has been 308 days' labor performed upon the shaft, including the blacksmith. The rock passed through during the entire month has been very hard and very much mixed with quartz stringers, all of which give low assays in silver. There is some copper showing, but I have had no assays made for that metal.

There has been a large amount of extra work performed during the past month and good and permanent improvements made. The large boarding house is completed and in operation. The stable, Supt's office and bed room are nearly finished. A good powder house and other necessary out-houses have been erected and everything about the mine is in first class order and working well. I discharged two of the carpenters on the 31st of May and shall be able soon to dispense with the services of several more of the outside men. The joint wharf, built under my direction, by this company and the Silver Reef M. Co. is nearly completed, and is a good thing for the purpose intended. I shall be able to report the total expense of building the wharf to your Hon. Board by the 5th of the present month. I will also be able by the 3d to report to Mr. F. O. Beal, President of the R. S. M. Co. the amount of funds required to pay off the indebtedness for the current month.

I think we are to have more favorable ground for sinking and think we are close to a large ledge, or feeder to a lode, from the large quantity of quartz passed through. I desire to pay a deserved compliment to the Foreman, Mr. S. J. Farnham, and to all of the men in the employ of the company and wish to acknowledge the hearty and willing co-operation I have met with from all of the men now in the employ of the company. The wages of miners were advanced by nearly all of the mines here to \$1.50 per day on the first of last month, but I refused to do so, but gave my men notice that this company would advance the pay to the new rate upon the first of June if they were able

to earn it and I am now of the opinion that they are entitled to the advance.

Hoping that my course of action may meet with your approval,

I remain yours very respectfully,

WILKIE DARLING, Supt.

Blue Hill Falls, June 1st, 1880.

Chaudiere Gold Fields.

As we have said considerable from time to time concerning the gold fields on our North Western Border, the following letter to the New York *Mining Record* from C. W. Kempton, M. E., formerly superintendent of the Waukeag mine at Sullivan, may be of interest to our readers:

The day has at last arrived when the rich gold deposits of the Chaudiere Valley, P. Q. are coming to public notice, and a short account of the result of a visit to the district may not be without interest.

The Chaudiere gold field comprises some eight thousand square miles of territory, situated south of Quebec, and including Beauce and Compton, with portions of Dorchester, Megantic and Wolfe counties, and extending some distance into northern New Hampshire and Maine. The center of richness appears to include Beauce and a portion of Compton counties.

The formation in Beauce county appears to be slates, sandstone, etc., of lower and upper silurian age, and occasionally varied by dykes of diorite and their erupted rocks, generally conformable to the strike of the slate, which is northeasterly. Through these slates run a multitude of quartz veins, generally fissures, of all widths, from an inch or so up to forty feet, and running in a generally northeasterly direction, often for miles without apparent break. These veins all carry gold, and in most cases in paying quantities, yet no quartz mining except one short tunnel, has ever been done. As for milling a ten-stamp mill was erected some years since, but from defective amalgamation, managed to lose the greater part of the gold. This failure in result was laid to "refractory nature of the quartz" as is usual in such cases, whereas the quartz is not refractory enough to cause any trouble.

The alluvial washings have been carried on for some twenty years, in the most modest manner possible, using no quicksilver, and losing all their fine gold, but paying well. The alluvial gold is mostly found in the older gravel beds, marking the course of former streams, which appeared to have changed for their present beds at the time of the upheaval of the diorites.

No hydraulic operations have as yet been attempted except on a small scale, although splendid facilities exist for the adoption of this method. The general manner of working the deeper gravel is to sink shafts and work out block stopes, like a small coal mine. In spite of all drawbacks, large profits are now being made in the gold washings, and the former oppressive royalties and mining regulations having been removed there is now a grand opportunity in the Chaudiere Valley for moderate capital and quick returns.

Mica in New Hampshire.

Grafton, New Hampshire, is said to be the seat of some of the best mica quarries in the United States. The Ruggles quarry is the oldest and has been worked since 1803. It employs about ten men annually, and last season the shipments averaged nearly 2,000 pounds, the average price of which was stated to be about \$2 per pound. The supply is still good, although the accumulation of rock and "grout" render the operation of mining slower and more expensive than formerly. A few years since mica was discovered on Alger or Beryl Hill, near the Ruggles quarry, and about a mile from Grafton Center Station. Messrs. Page and Martin, who owned the property, worked it for two seasons, and obtained several thousand pounds of excellent mica from it, when they sold it to the Grafton Mica Mining Company. Another apparently valuable property is that of the American Mica Mining Company. It consists of 700 acres of land with mineral rights to 200 acres more. The Hale quarry is the largest opening on the property. It is a pit 50 ft. long, 35 feet wide, and from 12 to 15 feet deep, from which has been taken 6,000 pounds of merchantable mica. At several other points the property has been prospected, and shows mica in large quantities. It is said that this company can deliver un-manufactured mica at the railroad for \$1 per ton.—[*Economist*.]

Maine Mica Mining Company.

The Maine Mica Mining Company of Gilead, Me., was organized in Portland, June 5, with the following officers: President, H. J. Chisholm; Treasurer, A. K. P. Leighton; Secretary, Robinson Williams; Directors, Wm. Reed and Wm. P. Gould of Boston, H. J. Chisholm and R. Williams of Portland, and C. W. Pierce of Bethel, Me. The owners of the property have been prospecting for three months for mica and feldspar, and are more than satisfied with the development of the mine. Mica, in large sizes, of good quality, is present in large quantities, also feldspar of superior quality, together with many curious and precious stones, but that of commercial value is mica and feldspar; of this there is sufficient to warrant the promise of an early dividend-paying company. We append what Professor Carmichael said of this mine in a recent report to one of its officers:—

BRUNSWICK, April 21, 1880.—The samples of mica recently sent me as coming from Peaked Hill, Gilead, Me., have been examined by me. These specimens confirm the impression I formed on a personal inspection of the premises from which they come, that the surface indications would warrant mining for mica in the vein where they were found. This vein, which fills a nearly vertical fissure in Peaked Hill, is a true granite, containing quartz, feldspar and mica, in their usual proportions. The grain of this granite is unusually coarse, so much so that the crystals of mica reach the dimensions essential to the commercial article. The even grain, the smooth, straight cleavage, the transparency and toughness of the specimens taken out since my visit are the properties of a mica useful in the tests. The specimens here considered are not of the largest size, but there is reason for thinking that the size of the crystals may increase with the depth of excavation. The vein in question extends probably to fathomless depths, increasing in width, judging from the analogy of other granite veins in the descent. The mica will surely accompany it, and though it may for a time disappear it will be found again. The size and quality of the crystals of mica are, in my opinion, likely to improve somewhat with depth. The best point of attack would, I think, be the top of the hill. Respectfully Yours,

(Signed)

H. CARMICHAEL.

Assayer for the State of Maine and Professor of Chemistry, Bowdoin College.—[*Boston Advertiser*.]

Silver Mining in Maine.

Judge Hetzel a few days ago received a letter from a mining superintendent in Maine, who has worked in the mines of this coast. From his description of affairs it would seem that mining in that section is much different from here; in fact it is quite a genteel business and more agreeable than otherwise. He calls his mine the Gilt-edge Silver Stocking, and from present indications the prospects are very encouraging for finding a large body of silver ore. The assays are high and show but little base metal. "We are situated fifty-five miles north of Bangor and only one hundred feet from tide water. I have my own horses and buggy; board in a farm house; pay \$3 per week for board, and have the historical spare room to sleep in. The water is deep enough to float the Great Eastern; I go fishing and catch perch, shad and lobsters. The climate is delightful and every air is filled with sweet memories of the past. Young ladies are numerous, well educated and lovely in disposition. Such sunsets can be seen in no other place. I am employed by gentlemen, who appreciate what is done for them, and make things pleasant for those with whom they associate. As regards titles to the claims, there can be no dispute. The land was taken up shortly after the Mayflower landed our Pilgrim Fathers and has come down from father to son." The writer concludes by saying that he is happy and contented, and never yearns for the return of his experiences on the Pacific coast. Flowers grow at the base of the waste dump of his mine, and the wood-yard is sheltered by weeping willows and waving pines.—[*Bodie Free Press*.]

Romance of the Comstock Lode.

(San Francisco correspondence Chicago Tribune.)

If it is true that the Comstock has "petered" out at last what a moral its history has been! How it has made and unmade men,

what colossal fortunes have been built in a month, and how soon have they been dissipated. Senator Sharon, who was sent to Virginia City by Ralston as the agent of the bank of California, got the nucleus of his fortune in a few months, and is now among the richest men in the nation, his wealth being estimated all the way from \$10,000,000 to \$25,000,000. Mackay was a car-man in Ophir at \$4 a day; then he went to work in Bullion as foreman, and then in Kentuck. One day as he, with a number of others came off shift, J. M. Walker who was superintendent of the mine, was talking to a knot of men about investing in a certain neighboring mine—Imperial, I think.

Mackay overheard the conversation. He had always been a sober and industrious man, and he had some money. He took Walker's advice and invested in the stock and eventually made \$100,000 which he had on deposit in the bank of California for several weeks before again entering the field. Time ran along. Fair and Mackay made two or three joint investments and always made money. Then it happened one day they were down in Flood & O'Brien's "Auction Lunch" saloon on Washington street. Flood & O'Brien were doing a modest business, but not enough to choke them with pride. Flood had made a few thousand dollars in stocks and was eager for points. It was nearing the time for the annual election of Hale & Norcross. Fair said if they could get a lot of the stocks and proxies for a lot more they could get the control of the mine away from the bank of California.

They resolved to do it. They put all their money in a pool, Flood acting as broker, and bought all the stock possible. They secured proxies for enough more to control the election, but would have been beaten by Ralston in the end if Col. Fair had not proved his integrity in the presence of the most glittering temptations Ralston could offer. Fair had proxies that represented the balance of power, and he threw them as he had promised, in favor of Mackay, Flood & Co. They never forgot it, as he retired from business two years ago with \$2,500,000. This was the beginning of the reign. Having got control of Hale & Norcross they opened it up for what it was worth. The stock shot up into the thousands, and they became millionaires in a few weeks.

But this merely whetted their appetites. The Central No. 2 and White and Murphy claim, just south of the Ophir, had always been considered wildcats. Mackay and Fair, who resided in Virginia, thought differently. They quietly gathered in all the stock at \$2 and started in to develop the claims, first re-naming them Consolidated Virginia and California. Everybody knows what these unparalleled mines have done. Mackay, Fair, Flood and O'Brien formed a partnership, Mackay retaining two-fifths and the others each one-fifth interest in the partnership. Mackay and Fair attended to matters in Virginia, Flood manipulated the market, and O'Brien, a broth of a boy if ever there was one, kept things moving among the saloons and out at the Cliff House. When he died in 1877 he left \$9,000,000.

Senator Jones got his start, made and lost his fortune on the Comstock. He was the daddy of Crown Point, and here he made his bonanza. How the twenties used to fly in those days! Wine, two-bit cigars, anything—everything free. But no one knows what a man is capable of under certain conditions until he is seen with unlimited wealth in a flush mining camp. But Jones went through like a man in the deal last fall, and he is now interested in Colorado enterprises, I believe.

Johnny Skae is another who was for a time one of fortune's favorites. He was a telegraph operator when he got hold of the key to some big stock operator's cipher which he used to such good advantage that he got the nucleus of a fortune. He finally got control of the Virginia and Gold Hill water company, and that, together with fortunate investments in stocks, made him \$2,000,000. To-day he is \$250,000 worse off than nothing.

"Lucky" Baldwin is another who owes his fortune to the Comstock. A man of anything but elevated instincts, yet possessed of native shrewdness, he has accumulated a large fortune through fortunate investments in Comstock securities. It is related of him that he gave his counsel, R. H. Lloyd, who secured him a divorce from one of his wives, 1000 shares of Ophir as a fee. The stock was worth at the time \$180 a share. How cheaply wives are gotten, and how dear they sometimes prove in the end!

The moral history of the Comstock for the past 20 years, if truthfully written, would comprise a dramatic tale indeed. I have never heard of any one being morally elevated by its influence, but the lives that have been wrecked here, their name is legion. Even to-day the crack of a suicide's pistol or scenes behind the grated bars in the two lunatic asylums of this State tell their own tale. Honor, fortune and life have been sacrificed time and again to the god mammon. Men of moderate fortunes envied Flood & Co., and played against their game and drew disaster, ruin, insanity, death, while the masters of the situation counted their increasing gains in the Nevada bank vaults and pitied the fools who dared woo fortune without propitiating her latest votaries.

In the palmy days of the Comstock, Virginia City enjoyed flush times. In the city proper there was a population of about 8000 souls, consisting of miners, saloon keepers, merchants, teamsters, gamblers and courtesans; 15 faro banks and 200 courtesans lent their attractions to the place in 1876, and I remember the lavishness with which money was thrown to the dogs. Everyone had money and everyone seemed to be on a glorious spree. But the scene changed in 1877. Darkness and despair camped under the shadow of Mount Davidson, and the glory of the Comstock seemed to have departed. But in 1878 Sierra Nevada gave evidences of a bonanza. Money was plenty, stocks booming for a few weeks, and then, the deal being ended, the town relapsed into a state of semi-bankruptcy. A joint effort was made to revive the lode last fall, and Union and Sierra Nevada were pushed up the scale. But the experts who saw the drifts coppered the deal, and it now looks as if the dog was finally and irrevocably dead.

The Comstock has had an unprecedented history. In 20 years it has given to the world more than 300 millions of money and employment to thousands of workingmen. It has developed some of the finest machinery in the world, and made a quartette of millionaires who never hoped for more than \$100,000 between them. Its future for many days will be that of most mining-camps that have had their day. There is some low grade ore that may be worked by the Sutro Tunnel mills, to be constructed soon, but the day of bonanzas has passed.

The Mining Industry in Maine.

(From a Correspondent)

Every exertion causes a recoil, every stimulant a reaction, every pulsation a rest, and, to descend from commonplace to the vulgar things of earth, every mining excitement a depression.

We are dwelling in the vale of the latter now, and are being dropped upon and sat down upon so that we no longer have a mining district—so many say. But is it so? Are we so far gone as only to be able, as they say of us, to throw good money after bad? Have we actually wasted the brain work and energy used during the past two years, and drawn sight drafts on the fountains of hope only to have them returned dishonored at last?

I humbly think not. We are down; we are being kicked while down; dirt is the only food allowed us, and our clothing is popularly supposed to consist merely of sackcloth and ashes. But are the pioneers discouraged? A brief resume of work being done conclusively proves the contrary. These men are at the front, where the strong should always be, bravely fighting the battle like the heroes that they are, and, although feeling that they are the "forlorn hope" still throwing their small fortunes and their energies alike into the breach. And I maintain that the mines are worth it. Is experience nothing? And science also? Certainly if these are anything in the decision of whether a mining country is good or bad we have them un-

qualifiedly with us.

The whole objection is that we are in Maine. And what reason is shown why the ledges of Maine should not contain wealth? What peculiar crime was committed by any spirit having Maine under its special protection that should cause a Divine Providence to banish all valuables from our territory in its formation? This question is on a par with those intellects who think Maine, because it is Maine should never be blessed with any production of nature more valuable than a pine tree. I ask what reason can be assigned for this unbelief in our mineral wealth? We show rich ore in wide, large veins—all good ore; every one acknowledges this who condescends to examine. But we make no returns, and why? simply because the gentlemen who scoff at our ores and refuse to lend us the light of their countenances have thrown their well-stuffed pocket-books at the Black Hills or Leadville or elsewhere, from whence they can never obtain a word of reliable information, and have withdrawn from the channels leading eastward all the money that would actually have reached here and helped develop and increase our productive resources.

This is the reason. We have good ore, plenty of it, but we need the wherewithal to raise it to the surface and transform it into bullion, and that wherewithal has been thus far denied us.

A Letter from Colorado.

E. C. Nichols, President of the Oshkosh S. M. Company, has recently received the following letter:

LAWSON, May 31, 1880.

FRIEND NICHOLS—Yours of 26 inst just received; was glad to learn of your safe arrival at home. Everything is booming here, as usual—new strikes reported every day, and capital coming in fast. Eastern men are fast finding out the fissure veins of Clear Creek County are the safest to invest in. I closed a sale last week on the Runell mine—it lays between the Oshkosh and Peabody—to some Wisconsin men who are going ahead and develop it. The Joe Reynolds property is still taking out rich ore. The boys are pushing the Oshkosh down fast; the shaft is now down thirty feet, and improves every foot sunk. The latest development is a cross vein coming in and crossing lower end of shaft; as far as seen it looks well but I can tell more about it by opening it off of the Oshkosh ground; I will do so and locate it for the company. I am well satisfied with the contract let to the boys. They are doing things up in a workmanlike manner and are making a nice shaft. I shall go up to the mine in the morning and will then write you again and send monthly report, etc.

Yours Truly,

CHAS. L. JAMES.

LODES, LEADS AND VEINS.

LAWRENCE.—Work is now being carried forward in true mining fashion. Mr. Geo. D. Holt, formerly Superintendent of the Niagara, on the Comstock, has charge of the mine, and under his supervision matters are progressing as favorably as could be wished. A model hoisting engine has been purchased and placed in position and is found to work to a charm. Supt. Holt had it taken apart and every section thoroughly tested to his satisfaction before purchasing. The new steam pump keeps the mine entirely free from water, and consequently the workmen will experience no further trouble from that source. A substantial gallow's-frame has been erected over the shaft, and in fact the hoisting machinery covers everything necessary in the sinking to a depth of 500 feet. The depth of the shaft has been somewhat over-estimated, but is found to be by actual measurement, 24 feet. Numerous stringers and bands of quartz and ore are seen in the bottom and sides, and the prospects of finding a large body of ore at no great depth are as good as at any time since the mine was opened. The timbering is in double compartments and is being put in after the manner in vogue on the Comstock, than which nothing can be better or more substantial. The buildings on the ground consist of a powder-house, a commodious blacksmith shop, and a new building 30x30 feet in size, used as a store-room, ore-house and Superintendent's office. A large shaft house is contemplated and will probably be erected within a short time. Eight men are at present employed, and arrangements have been made for carrying on work six months under the present management. As Supt. Holt thinks he will be able to push down the

shaft at the rate of about 25 feet per month, the company are in a fair way to have the value of their property demonstrated beyond all doubts. Much credit is due Mr. Holt for the skill, energy, and last but not least, the economy which has characterized the improvements at the mine, since he assumed the duties of Superintendent.

CON. HAMPDEN.—The shaft has reached a depth of 146 feet and is being pushed with all possible speed day and night. Fourteen men are employed. The new vertical pump has arrived and will be in working order the first of the week. An air compressor is contemplated which will materially expedite the work of sinking. The hoisting machinery works finely and everything about the mine is in first-class order. Mr. Cahill is a popular and efficient Superintendent.

CORINNA.—The work of development is progressing under favorable circumstances. At a depth of 80 feet a cross-cut was started to strike the vein and this is now in 15 feet.

EXETER.—The Exeter Mining Company was organized on Saturday last with a capital of \$500,000, divided into 100,000 shares of a par value of \$5 each and the following officers: President, D. N. Estabrooke, Oldtown; Vice President, J. Y. Richardson, Oldtown; Secretary and Treasurer, J. A. Blanchard, Oldtown; Directors, D. N. Estabrooke, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Lane, all of Oldtown, —Sargent of Brewer, —Greenwood of Corinna. It was voted to place forty thousand shares in the treasury. The property of the company is located in the town of Corinna on the Dearborn farm near the county road. The showing is argentiferous galena in a vein between two well defined walls 8 to 9 feet apart.

NORTH CASTINE.—The blacksmith shop is erected and the derrick is in place. A considerable quantity of handsome ore is being taken out.

CASTINE HEAD.—A correspondent states that work on the mine at Castine Head still continues, with very encouraging results. "The ore increases in richness as we cut into the bank and the vein widens at every foot. The company invite inspection of their property by the public. We are situated three miles from the Rozier mine and about the same distance from the Tapley mine in Brooksville."

TAPLEY.—A crew of about 25 men are being employed and a large quantity of rich copper sulphurets is being taken out. The people of Brooksville and vicinity are much excited over the developments.

BLUE HILL.—The annual meeting of the Blue Hill Copper M. & S. Company was held at Kittery Tuesday, and the following directors were elected: S. C. Blanchard, F. B. Dole, Manning Emery, Stephen N. Stockwell, C. W. Van Alstine. The treasurer's report shows: Cash on hand, \$19,611.44; bills receivable, \$3000; total, \$22,611.44. The company owe last month's bills and pay roll amounting to about \$2000; net assets after paying all bills to June 1, \$20,611.44.

DOUGLASS.—Rapid progress is being made at the Douglass mill and much of the machinery is in place.

ATLANTIC.—The outlook is bright. The crosscut is 14 feet in the vein and a large quantity of ore is being taken out of the crosscut and from the drift which is being driven on the vein to the west. The ore taken out is being cobbled and it is expected within a month to ship a cargo.

BLUE HILL CENTRAL.—On Friday last several blasts were discharged and a considerable quantity of handsome copper was raised. The mineral came in from the north. The rich strike was an agreeable surprise to the company who had doubts of reaching the vein so soon. The mine has since been visited by a large number of persons who are very enthusiastic over it.

GRANT.—The mine is located on the shore of the bay and the view is one of much beauty. Mr. Fraser, the foreman, states

that the shaft which is a vertical one has now reached a depth of 100 feet. The new engine works very satisfactorily and it is hoped that the pump just being put in will take care of the water which has been rather troublesome. The two veins which it is proposed to strike run parallel with the shore and are exposed at low water. The shaft house is 16 feet by 50 feet in size and bears a cupola. The gallows frame is 20 feet in height. The mine is equipped for good work and satisfactory progress is being made.

McFARLAND.—A mine of much promise at the present time is the McFarland, located on the western shore of Hancock Point. On the 20th of last September Mr. F. A. McLaughlin, a mining man of considerable experience, discovered mineral on the property belonging to Mr. S. N. McFarland of the McFarland House. Several gentlemen passing the season at their summer cottages on the Point became interested in the discovery and the development was commenced on November 3d. During December Prof. Stewart visited the property and reported favorably thereon. A shaft 8 ft. by 12 ft. has been sunk to a depth of 50 ft. The vein at the surface was in the middle of the shaft but it has now dipped to the east somewhat and the shaft is being inclined with the intention of following the vein. The shaft is timbered thoroughly to a good depth. Twenty to twenty-five tons of ore are on the surface that would pay handsomely to work. The vein is about eighteen inches in width and is a handsome quartz thoroughly mineralized with argentiferous galena and some copper sulphurets. The vein is gradually widening. At the present depth a large amount of quartz is coming into the vein from the west. Neat and substantial buildings have recently been completed. The shaft house is 24x36 feet with a cupola and the whim house is 24x24 feet. The store house is 16x18 feet. The new whim works very satisfactorily. Great credit is due Supt. McLaughlin for the excellent work which has been done under his charge with a small crew. Rare good judgment has been shown in every move made and everything around the mine indicates neatness and good management. The prospect is very promising. The mine is beautifully located close to the shore and overlooks Frenchman's Bay, Mount Desert and other attractive scenes. Many points of interest to the geologist are observed. The evidences of volcanic action are very marked and the strata for some distance along the shore lies horizontal. The officers are desirous that persons should call and examine the property.

HANCOCK.—Work was recently resumed and is being vigorously prosecuted.

SULLIVAN.—The grounds of the Sullivan present a very lively appearance. The foundation for the new mill is now all completed and the frame for the woodwork is rapidly being put in place. The tall brick chimney 80 ft. in height is being commenced. A portion of the machinery for the mill has already arrived and the remainder will be early on the grounds. The work in the drifts in shaft No. 1 continues and on one of the levels the drift has been run 200 feet west and 100 feet east and on the other level the drift has been extended 125 feet west and 80 feet east. A winze is now being run from the upper to the lower level. Shaft No. 2 has reached a depth of 100 feet. A Knowles pump is now being put in. The ore in the lower levels is of a very high grade and with the mill in successful operation the great value of the Sullivan mine will be demonstrated to the world.

WAUKEAG.—The crosscut on the 142 ft. level is in about 50 feet and Supt. Tilden is confident that they are in the immediate vicinity of the vein.

FANEUIL HALL AND SULLIVAN.—The shaft has been sunk a dozen feet into the soil and is now a few feet into the ledge.

PORTLAND SULLIVAN.—Under the charge of Supt. Hutchinson work is progressing well. The shaft is down about 15 feet through very hard rock.

PINE TREE.—The work in the drift continues and ore showing good mineralization is being found.

MILTON.—The improvements continue and the Milton can justly claim one of the finest mining plants in the world. The new boiler has been put in place. The Centennial air tank is also in position but the air compressor has not yet arrived. The machinery for the small mill has about all arrived and the mill will soon be running. It will be a regular Nevada quartz crushing mill and Supt. Shoenbar thinks he will be able to treat four to five tons of ore per day. The process is that of amalgamation. A small saw mill 20ft. by 40ft. in size is to be erected to saw lumber to be used in timbering the shaft and for other purposes. This mill will be run by a 35 horse power engine. Work is progressing well in the shafts and a depth of 140 feet has been reached in No. 1 and 128 feet in No. 2.

MILLBROOK.—The work is progressing under the superintendency of Mr. Sidney E. Horne. The shaft has reached a depth of 105 feet, and the cross-cut is in 6 feet.

ASHLEY.—The shaft is now down 125 feet and a crosscut has been run north 8 feet. The annual meeting of the company was held at the Waukeag House in Sullivan on Thursday of last week and the old board of officers was re-elected.

SALEM SULLIVAN.—The Salem Sullivan Silver Mining Company was organized at Ellsworth recently. The officers are President, Charles Odell, Salem, Mass.; Treasurer and Secretary, Charles S. Clark, Salem, Mass.; Directors, Charles Odell, Charles S. Clark and Geo. A. Copeland of Salem, John P. Gordon of Franklin and Charles W. Connors of Sullivan. The capital of the company is \$500,000, divided into 100,000 shares of a par value of \$5 each. The property is known as the Connors mine and is situated at Sullivan a short distance to the east of the Waukeag House. The work of development has been in progress some weeks and it is generally believed among the mining men who have visited the mine that it is on the Sullivan vein.

ACTON CON.—The magnificent strike of ore in the Acton Consolidated shaft, 90 feet depth, was the grand sensation yesterday in mining circles. Hon. G. P. Wescott brought down yesterday from Acton shaft some immensely rich gray copper and fine galena ore, which will assay, according to the opinion of Mr. J. W. Douglass, the superintendent of the Bulion Company, as high as from \$700 to \$1,200 per ton, and ranks it the finest mineral property in Maine, with promise to improve every foot further. This certainly is encouraging to the owners and believers in the Acton property, and verifies the prophecies of Profs. Stewart, Hitchcock, and Bartlett and others, that it is a true fissure vein, and only needs development to render it one of the richest and most valuable mineral properties in the country. The ore being mined in the Silver Wave shaft, adjacent on the south to the Acton, also continues to be very rich and promising, and the owners are preparing to send away a lot for concentration and smelting. It is thought it will show some \$200 or \$300 per ton.—[*Portland Argus*, June 4.]

OSHKOSH.—This lode is located on Columbian mountain, near the ridge. It is owned by the Oshkosh Silver Mining Co., and superintended by C. L. James, who recently let a contract for sinking the shaft 100 feet deep. The shaft is evidently going down on the junction of two lodes, where there is a vein of scattered ore about two and a half feet in width. This, the superintendent thinks, will mill from 80 to 100 ounces per ton.—[*Georgetown (Col.) Miner*.]

FRANKLIN.—The Franklin Silver Mining Company held their annual meeting in Ellsworth on Tuesday of last week. The election of officers resulted in the choice of the following: President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors, E. H. Greeley, Jeremiah Wooster, Edward Mullan, N. P. Doe and Richard Laffan.

EGYPT.—The shaft is down about 23ft. and a stringer of rich copper ore has recently been cut through.

Nuggets.

Supt. Hutchinson, of the Portland Sullivan, has recently built him a house near the mine at West Sullivan.

The mill of the Milton Mining Company as soon as running will work a lot of ore from the Golden Circle mine.

A party of excursionists from Belfast and Camden made a trip to Blue Hill the latter part of last week and viewed the mines.

A handsome cottage has been erected at Hancock Point during the past winter for Rev. Dr. Robbins, President of Colby University.

At Merrill's slate quarry in Brownville one hundred men are being employed and slate is being quarried out at the rate of about sixty squares per day.

Messrs. Tinker and Osgood, of Ellsworth, will on the 20th of the present month assume charge of the McFarland House at Hancock Point and will conduct this popular house during the summer months. The surroundings are delightful and we believe they will have a large business.

A new mine has been found on the place of Mrs. M. J. Springer in Franklin, called the Silver Hill mine. A shaft has been started some three feet, and fine ore has been taken out. We understand that parties in Boston are to take hold and sink the shaft as fast as possible.—[*Ellsworth American*.]

Dr. A. C. Hamlin of this city has received from Prof. O. D. Allen, New Haven, Conn., a bar of pure tin weighing 14 ozs., being the product of two pounds of ore from the property of the Maine Tin Mining Company at Winslow on the Kennebec. This is said to be the largest bar of tin ever cast from ore mined in the United States.

"Before investing in mining stocks the MAINE MINING JOURNAL advises that it be ascertained whether the company whose stock is offered for sale really has a mine. This is good advice, but there is nothing novel about it."—[*Boston Post*.]

Very true: there is nothing new or novel about the advice; but if the writer of the above is as well *Post*-ed as he should be, he must be well aware that the investor in stocks (whether those of Maine mines or otherwise) who has paid heed to the afore-said stale counsels, is a novelty.

An inexhaustible supply of fine red granite, equal if not superior in quality to the famous "Scotch" granite of Aberdeen, exists in Charlotte County, New Brunswick. Several attempts to develop quarries have been made during the past decade, but, owing to lack of transportation facilities and other hindrances, they have generally resulted in failure. Latterly there has been a considerable revival of effort in the work of getting out and cutting the granite, and a still greater impetus is expected from the completion this summer of the railway from St. John to the frontier at St. Stephens and Calais, Maine.

The Gouldsboro correspondent of the Ellsworth American writes: Three vessels have arrived here within a month with lumber for the Gouldsboro and West Bay Mining Co's., and another will soon be here with lumber for the dams, and concentrating works. Workmen are digging for, and driving the spiling for the dams. The upper dam is to flow twenty feet head, and Bogus meadow will be flowed and the water turned from its present course into this upper pond; besides, Dingle meadow and the Goose ponds will have dams at their outlets—all held as reservoirs. The above named mining companies are fortunate in securing the services of the two master builders, Sherman Smith and G. R. Hardison. Mr. Hardison is our mechanical genius, and Mr. Smith has made mill building the favorite study of his life, and he has had much practice in his art, here and in California.

Metal Market.

The following were the quotations in New York on Wednesday:

Silver Bullion.....	1.14 1/2	Zinc.....	7 1/2
Gold Bullion.....	1.00 1/2	Spelter.....	5 1/2
Pig Lead.....	4 1/2	Like Cop (ingr'ts).....	17 1/2 @ 18
Tin (Straits).....	15 1/2	Antimony.....	16 1/2 17

The Base Metal Market is rather dull.

Bar silver was quoted in London to-day at 62 3-16d. per oz., English standard.

The Stock Market.

During the past week there has been some improvement in the stock market and in New York there has been quite a general advance. The question of moment is whether the improvement is to be of long duration.

Closing Prices at Boston Stock Exchange,
FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JUNE 9, 1880.

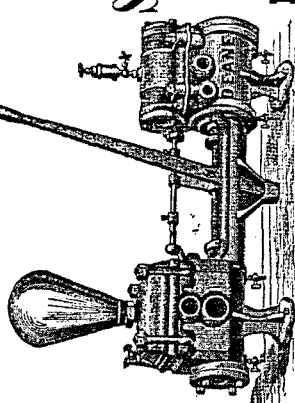
NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
AZTEC.....	16	16 1/2	15	15 1/2	...	...	15	15 1/2	15	...	14	16
Atlantic L. S.....	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Allouez.....	...	...	21	22	20	22	21	21	...	...	20	22
B. Antimony.....	2 1/2	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	...	...	3 1/2	3 1/2
Blue Hill Copper.....	220	...	220	...	220	...	221	...	221	...	221	223
Calumet & Hecla.....	1 1/2	2 1/2	1 1/2	2 1/2	1 1/2	2 1/2	1 1/2	2 1/2	1 1/2	2 1/2	1 1/2	2 1/2
Catalpa.....	7 1/2	8	7 1/2	8	...	...	8	8 1/2	9 1/2	9 1/2	9 1/2	10
Copper Falls.....	2	...	2	...	2	...	2	2 1/2	...	...	2	...
Duncan Silver.....	12	13	12	...	11 1/2	12 1/2	12	...	12	...	12	...
Franklin.....	20	18 1/2	19 1/2	18 1/2	19	...	3 1/2	3 1/2	...	...	19	...
Harshaw.....	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	...	...	4	...
Huron.....	1 1/2	1 1/2	1 1/2	...	1 1/2	...	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Mesnard.....	1 1/2	1 1/2	1 1/2	...	1 1/2	...	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
National.....	34	34	35	...	35	31	32	1 1/2	32	1 1/2	32	1 1/2
Oscoda.....	14 1/2	14 1/2	14 1/2	15	14	15	14	15	14 1/2	15 1/2	14 1/2	15 1/2
Pewabic (new st'k).....	24	24 1/2	24 1/2	25	...	...	25	24 1/2	25	25 1/2	25	25 1/2
Phoenix.....	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Quincy.....	...	...	12 1/2	...	12 1/2	...	14	13	15	12	...	...
Ridge.....	...	...	...	...	...	...	...	...	...	...	...	...
Silver Islet.....	...	...	...	...	...	...	...	...	...	...	...	...
Star.....	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan.....	6	...	8	...	...	...	8	...	...	...	...	...
Waukeag.....	...	...	...	...	...	...	...	...	...	...	...	...

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JUNE 9, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Acton.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Ashley.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Ammonoosuc.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Atlantic.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Boston Acton.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Bisbee.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Blue Hill.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Con. Hampden.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Cherryfield.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Deer Isle.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Douglas.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Favorite.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Forest City.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Fort Knox.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Gloucester.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Grant.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Harbington.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Itasca.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Milton.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Mineral Hill.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Norumbega.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Owl's Head.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Pett Menan.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Portland Acton.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Robert Emmet.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Stover Hill.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Sullivan.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Twin Lead.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Waukeag.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75
Young Hecla.....	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75	1 75

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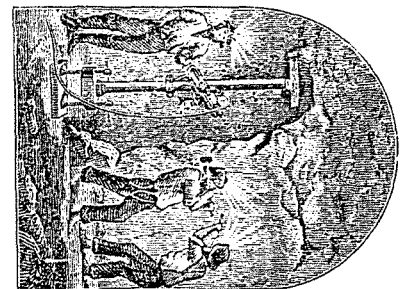
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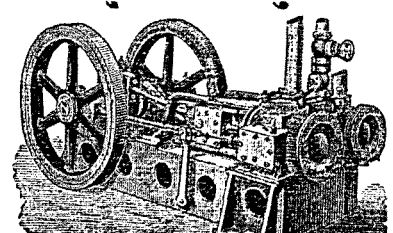
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ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Laughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMNONOOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 17½ Lisbon St., Lewiston.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President and Treasurer, D. H. Bisbee, Camden; Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
A. I. BROWN, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 80,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CONSOLIDATED ACTON SILVER MINING CO.
On the Acton Lode, Acton, Me.
Capital, \$1,200,000; 240,000 Shares. Par value, \$5. Non-assessable.
President, George P. Wescott; Vice President, John S. Morris; Secretary, Charles D. Clark; Treasurer, A. A. Dennett. Directors—G. P. Wescott, J. S. Morris, W. F. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Furguson Haines, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.
The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.
Offices—22 Exchange St., Portland, Me., and 23 Congress St., Boston, Mass.

CLARK SILVER MINING CO., FRANKLIN,
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPDEN SILVER MINING CO.,
Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 80,000 Shares.
President, Hon. F. M. Laughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Laughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
THOMAS CAHILL, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. P. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, W. Darling, F. H. Clague, C. H. Huckins, James Nealey, Jr., Chas. E. Field.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphalet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hunkley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAAC S. GRANT, Supt.

EDGEWOGGIN SILVER MINING COMPANY
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. H. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardiner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meagher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
AXEL HAYFORD, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Laffan, Jeremiah Wooster.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Willder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.
Office, No. 1 Pemberton Square, Room 4, Boston.
BROWNELL GRANGER, Supt.

GARDNER MOUNTAIN COPPER MINING CO.,
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000. Shares 10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. F. Reed.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth.
Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Flske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S.-J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.
President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. I. Huxford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Ham, Jackson; John H. Gordon, M. Chase, J. I. Watts, L. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.
Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.
Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Dutton, Blue Hill; J. S. Condon, Orland.
TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice President, John S. Jenness, Bangor; Treasurer, W. J. Webb, Bangor; Secretary, W. Lee Johnson, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
GEO. D. HOLT, Supt.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emory G. Ingalls, of Bangor; Alvin Rediff, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Swift, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY,
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAR, Supt.

McFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAllister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAllister, J. H. Douglass, A. C. Swazey, Enoch R. Hill, F. H. Moses, E. A. Madsfield, Jr., Edward Swazey.
F. W. CROSBY, Supt.

MAINE ACTON SILVER MINING COMPANY,
Acton, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5.00 each, unassessable; Treasury Fund, 25,000 shares.
Geo. F. Calef, President, of Saco; Ferguson Haines, Treasurer, of Biddeford; Frank Foss, Secretary, of Saco; Directors—Geo. F. Calef, Alfred Patterson, Dr. J. E. L. Kimball, of Saco, Charles M. Moses, Edwin Stone, Frank A. Sawyer of Biddeford.
HOWARD P. SOULE, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hamden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. M. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each.
President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.
C. E. LANE, Brooks; Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and G, 3d floor.
President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxen, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me.; Geo. G. Barker, Salem, Mass. Thomas H. Guernsey, Boston; Joshua S. Duncklee, Boston.

QUEEN CITY SILVER MINING COMPANY,
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lylander Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullian, James F. Davis, Guy Mullian, A. A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.
WILKIE DARLING, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.
E. J. SWAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROURKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, B. P. Tilden, Sullivan; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.
SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. B. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN-LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President—, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me. Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, 32,000 Shares.
President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. C. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

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Leaves Bangor for Bar Harbor every WEDNESDAY and SATURDAY at 9 A. M., touching at Hampden; Bucksport, 9.15; Castine, 11.30; Islesboro, 12.30 P. M.; Deer Isle, 2 P. M.; S. W. Harbor, 4.00; Bar Harbor, 5.30 P. M. Returning, leaves Bar Harbor every MONDAY and THURSDAY at 6.30 A. M., touching S. W. Harbor at 8.00; Deer Isle at 10.30; Castine at 12 M. connecting with steamer May Queen for Belfast. Port Point at 1.00 P. M.; Bucksport at 2.00, arriving in Bangor at 4.00 P. M. Meals served on board.

Bangor and Bluehill.

TWO TRIPS PER WEEK!

Steamer May Field.

CAPT. WM. BARBOUR,

Leaves Bangor TUESDAYS and THURSDAYS at 8 A. M.; Winterport at 9.30; Bucksport at 10; arriving at Bluehill at 4.30. Fare \$1.50. Sure connections at Castine for Islesboro and Belfast. Returning, leaves Bluehill every WEDNESDAY and FRIDAY at 7.30 A. M., for Bangor, touching at Sedgwick, Deer Isle, Castine, Port Point, Sandy Point, Bucksport, Winterport and Hampden. FRANK D. PULLEN, Agent.

Bangor, June 1.

Bucksport & Bangor Railroad



CHANGE OF TIME, MAY. 3d, 1880.

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.35	1.30 7.20
Arrive in Bucksport,	8.45	2.45 8.30

Direct connection is made with the two through trains on Maine Central via E. & N. A. Railway; also with Bangor & Piscataquis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arrival of morning train from Bangor, reaching Blue Hill at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection east, leave Bucksport 1.00 P. M.

apr30

L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this line will leave India Wharf, Boston, and Franklin Wharf, Portland, every evening (Sundays excepted) at 7 o'clock.

CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West. Tourists will find this one of the finest OCEAN TRIPS on the New England coast.

WM. WEEKS, J. B. COYLE, JR.,
Agent, Boston. Gen. Ag't. Portland

BANGOR AND ELLSWORTH STAGE LINE.

Stages leave Bangor for Ellsworth at 8 o'clock A. M. and 8 P. M., or on arrival of Western trains from Portland and Boston, connecting at Ellsworth with stages for Bar Harbor, Sullivan and surrounding towns. Good covered coaches run over this line between Bangor and Ellsworth. Extra teams turn shed at all times, at reasonable rates, at their stables in Bangor and Ellsworth. JOHN M. HALE & CO.

Ellsworth, March 2, 1880.

BUCKSPORT AND BLUE HILL STAGE LINE.

The stage leaves Bucksport daily, Sundays excepted, at 1 P. M. for Blue Hill and Sedgwick.

Returning, leaves Blue Hill, daily, Sundays excepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to Blue Hill, and by the Blue Hill driver through to Bangor.

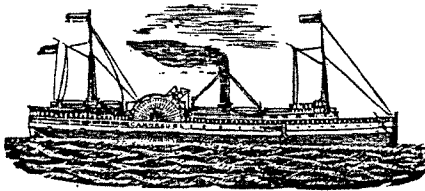
A. P. CURRIER & CO., Proprietors.

The Sanford Steamship Co.

BETWEEN BANGOR AND BOSTON,

Touching at Hampden, Winterport, Bucksport, Searsport, Belfast, Camden and Rockland.

Four Trips per Week



Commencing Monday, May 17th

Steamer CAMBRIDGE, | Steamer KATAHDIN,
Capt. Otis Ingraham, | Capt. W. R. Rolx.

will make four trips per week,

Leaving Lincoln's Wharf, Boston,

alternately every MONDAY, TUESDAY, THURSDAY and FRIDAY at 5:00 P. M.

Leaving Bangor alternately every MONDAY, WEDNESDAY, THURSDAY and SATURDAY, at 11:00 A. M.

No other line offers cheaper rates, or better passenger accommodations; staunch, comfortable and reliable steamers; careful, experienced and polite officials.

Passengers taking the Steamers of this line have a FULL NIGHT'S REST, arriving in Boston early in the morning, thus avoiding the discomforts of midnight changes, and the long railroad ride incident to other routes.

FOR PORTLAND.]

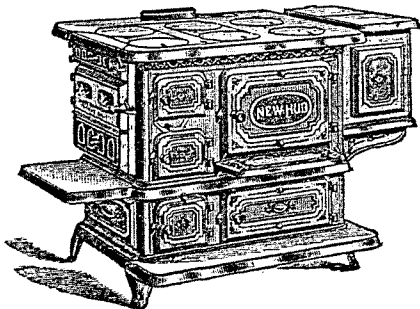
Passengers and freight will be forwarded to Portland by connecting at Rockland with Steamer Lewiston at regular rates of the old company. Passengers leaving Bangor, Monday, arrive in Portland the same night.

Tickets sold on each Steamer for Portland, Lowell, New York, Philadelphia, Baltimore, Washington, and all Western and Southwestern Ports, and Baggage checked through.

JAS. LITTLEFIELD,

Gen'l Pass'r and Trans. Ag't, Bangor.
Bangor, May 15th, 1880. d&w

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with Steel Finished Edges and Panels, Plated Knobs, Plated Cover Lifter, Hub Towel Dryer, Oscillating Oven Shelf, Reflex Grate, etc., together with every improvement (or its equivalent) that can be found in any range made. It embodies in the highest degree all the requirements of a first class range, and is the most complete piece of Kitchen Furniture ever produced.

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THAT MAKES A SPECIALTY OF

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CUSTOM WORK MADE TO ORDER.

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WHEELWRIGHT & CLARK'S BLOCK.

ESTABLISHED 1834.

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A careful examination of our carriages will prove them unsurpassed in symmetry of proportion, perfect in mechanical construction and thorough solidity of workmanship.

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Blue Hill, Maine.

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H. A. TRIPP,**Counsellor & Attorney at Law**

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april 15

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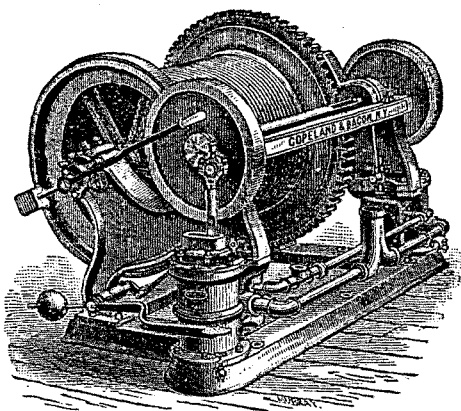
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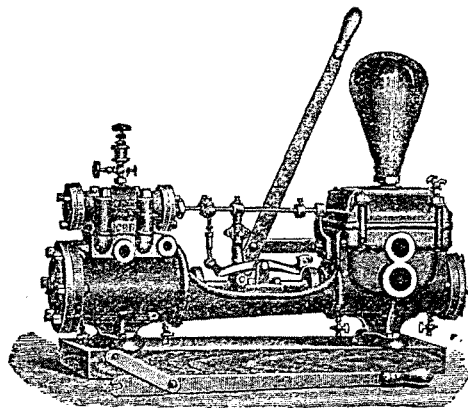
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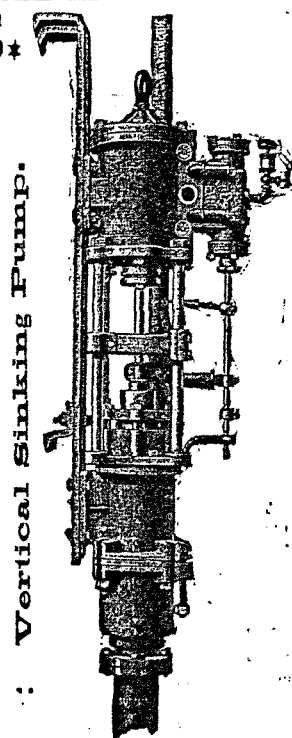
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Vol. I. No. 25.

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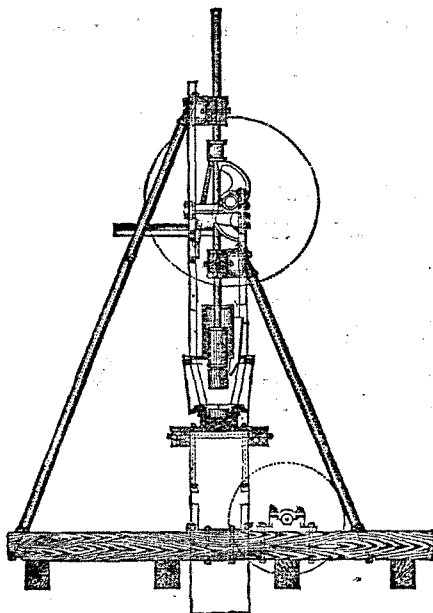
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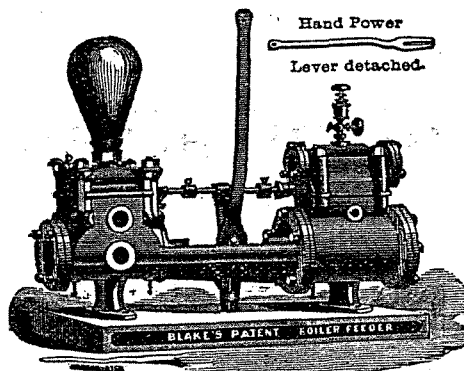
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING,) EDITORS.
W. F. BLANDING,)

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JUNE 18, 1880.

THE "SOUND" DISASTER.

The disaster to the steamer *Narragansett* of the Stonington Line has been the general topic of conversation during the past week, and we cannot let the occasion pass without a few remarks upon the subject.

Everyone who has had occasion to travel by water is aware of the difficulties attending the navigation of our coast during the dense fogs which frequently prevail here. All must know that at such times, no matter if the pilot be ever so cautious and the lookouts ever so watchful, accidents are liable to occur in spite of every precaution; but we most emphatically assert—and any man of sense must agree with us—that in calm weather and with an abundance of assistance close at hand there cannot in case of any ordinary accident be the slightest shadow of an excuse for such a loss of life as occurred in the *Narragansett* catastrophe.

In the first place, the life-preservers (?) placed on board most of our steamers are incapable of fully supporting in the water a full-grown person, and furthermore in the excitement attendant upon a collision or any disaster of a like nature, a majority of passengers are incapable of securing them to their persons in a proper manner, so that when once afloat they are as likely to be heels up and head down as any other way. The fact is, they are not intended for use, but are placed there in order to give patrons of the line a fancied security and to serve a further purpose as an advertisement. "The steamship *Great Republic* is supplied with 800 life-preservers of the most approved pattern." How nice it sounds! What a feeling of safety inspires us we sail on board the "*Great Republic*!" But alas! we find to our sorrow that whenever an occasion occurs for their use they are almost totally useless for the purpose for which they are warranted. Everyone knows this to be the case—has known it for a long time, and yet they are still in use. There are improved patterns—plenty of them—which can be secured in an instant about one's person in such a man-

ner that there is no possibility of his sinking when battling with the waves; there is however, a fatal objection to their use—they cost a trifle more than the old-fashioned kind.

Another thing; the officers of steamboats are supposed to be thorough and experienced seamen and in most cases are, but the crews—composed of deck hands whose only qualifications are the handling of a truck, and the waiters and cabin-boys whose only duties are to attend to the wants of passengers—usually know no more about seamanship than they do about the Comstock lode. The result is that when a catastrophe occurs the natural inclination to save their own lives outweighs all other considerations. Consequently, if the so-called "life-boats" are in a condition to be used (which is very rarely the case) there is no one at hand capable of lowering and managing them and the task usually devolves upon the passengers themselves. With regard to the boats, they are nearly always securely fastened to the decks, in which position they remain month after month without being disturbed, and are either firmly covered with canvass or if left open the plugs are removed to let out the rain-water and frequently are not to be found when wanted.

Last but not least, the laws should be such as to compel officers of steamboat lines to provide some means of registering each and every passenger, and placing the record where there is no possibility of its being lost. If it is impossible to make out a complete list before the boat starts, (as it should *not* be under any circumstances) several duplicate lists should be made on board the steamer and placed in the keeping of the several officers. In the present case, although the *Narragansett* had accommodations for twice as many passengers as the *Cambridge* of the Sanford Line, and notwithstanding all accounts agree that not only the state-rooms and berths were all occupied but many were compelled to stretch out upon mattresses on the floor of the saloon, the officers persist in saying that only about 300 passengers were on board.

How many human beings lost their lives in this disaster will probably never be known. It is sufficient for us to know that it has brought sorrow to many a happy home and desolation to many a household. It is not for us to moralize upon even so fruitful a theme as this, but we do wish to draw a lesson from this painful occurrence and impress upon the minds of our readers the necessity of compelling the managers of steamboat lines to adopt some different systems of carrying passengers from those at present in vogue. Whatever the public seriously demands, the servants of the public must accede to. In these days of enlightened science there is no earthly reason why the element of risk in travel, whether by sea or land, should not be reduced to a minimum.

We ask our readers' pardon for occupying so much space with a subject which has no apparent connection with the field to which this journal is devoted; but we couldn't help it.

Mining.

[From the Chicago Mining Review.]

There are people who yet claim that the present movement in mining, which, within so short a time, has assumed such vast proportions, is only a spasmodic effort, and there

is no question as to the limit and end of mining as an industry. Previous to this time we have not been a mining nation as we are to-day, although the steady stream of production has been constantly gaining, subject only to the slight fluctuations governing every productive industry.

In 1849 there was great excitement throughout the country in regard to the gold discoveries of California, and thousands of people from the crowded east sought the golden shores of the Pacific Coast. Notwithstanding the fact that the excitement and emigration ceased years ago the product of gold has been steadily maintained, and mining has remained a great industry of the Golden State. For years, scarcely known outside of those most immediately interested the Comstock mines in Nevada have poured out their tribute of treasure, and some of the greatest mining developments of the age have been put in operation.

Since the furore years ago about the mines of Dakota, and Pike's Peak was a mountain of promise to thousands of pilgrims, the name has been forgotten, but the clangor of the mighty stamp mills has echoed through the canons of the Black Hills, and an increasing stream of precious metal has flowed into the avenues of industry. We need not, in addition, mention Utah, Oregon, Georgia, Virginia, or the Carolinas, where mining has for years been a regular and profitable business, which now has the solid basis of a billion product of \$100,000,000 per year, and in the last thirty years has added over \$1,000,000,000 to the wealth of the country.

Now, within the last two years, a new impetus has been given this already well established element of prosperity, and during that time upwards of \$70,000,000 of Eastern capital has been invested in mines and mining properties. This investment has been made largely by the cautious and conservative Eastern capitalists, after personal or trusted expert examination, and with good management, as is already seen in the prominent mines at Leadville and other points, there is no doubt of a good return for all the money invested.

The mines west of the Sierra Mountains, where deep mining, expensive machinery, and low-grade ores have been the rule, have yielded, since 1849, a profit of \$63,765,600 over all expenses. In the new mining fields opened up within the past two years the majority of the mines furnish rich high-grade ores easily and cheaply mined, and treated with but little loss, near the market, in fact possessing such marked advantages that operators from the old districts are quick to take in the situation and avail themselves of its benefits.

Considering the character of the parties now engaging in mining, the extent of the mining field and its vast possibilities, the amount of capital invested, the class of permanent improvements being made, we should predict the failure of agriculture, and its extinction as a business, as soon as to venture a prophecy that it was only a question of time when mining, now full of a most encouraging promise of a brilliant

and substantial future whose fulfillment will be of untold benefit to the prosperity of every industry of the country, shall lie like the stranded wreck of a great ship upon the barren sands of a desolate sea, its mission unfulfilled, its high hopes dead, its promise withered, while disappointment, like the gloom of a great pall, covers the pathway of its broken, faded glory.

Lecture by Prof. Stewart.

In response to a petition signed by a large number of the most prominent citizens of Bangor, Prof. W. F. Stewart has consented to give a lecture upon the mining industry in general and the mines of Maine in particular and has named Music Hall as the place and Friday evening of this week as the time. On that occasion we doubt not that the hall will be thronged by our leading citizens and their ladies to hear what the Professor has to say upon this interesting topic.

Personals.

DR. FELLOWS of Prospect, went to Boston by steamer on Monday last.

CAPT. RICHARD SNOW, of Bucksport, is absent on a brief visit to Portland and Boston.

It is expected that SENATOR JONES, of Nevada, will visit the mining regions of Maine this summer.

PROF. BARTLETT arrived in Bangor Wednesday morning, and has gone to Lowell to visit some mining properties.

ISAIAH S. EMERY, Esq., of the Maine Mining Exchange, and wife took a trip last week through the eastern mining regions.

C. D. B. FISK and CHAS. A. DYER of Portland have gone to Shelburne, N. H., to look after their mining interests at that place.

T. H. MANSFIELD of the Portland Mining Exchange passed through this city on Wednesday last. He is visiting the mines of Franklin and vicinity.

GEO. F. GOULD, Esq., Secretary of the Deer Isle Silver Mining Company, is building a summer cottage on Little Diamond Island, Portland Harbor.

HENRY WHITING, President, A. W. CUSHMAN, Secretary, and I. S. JOHNSON, Treasurer, of the McFarland Mining Co. have handsome summer cottages at Hancock Point.

FRED HART, recently of the San Francisco *Stock Report*—the best mining paper on the Pacific coast—has retired to a "jungle in the wilds of Nevada," and become the editor of the Virginia *Enterprise*.

GEO. A. WHITNEY, of Portland, a furniture dealer, has taken French leave, leaving \$15,000 liabilities and assets indefinite. His partner, Mr. Redman, has lost \$6000; Mr. Sanborn, clerk, \$2000. The creditors are located in Boston and Maine, and their bills vary from \$800 to \$20.

PROF. W. O. CROSBY, whose card appears in our advertising columns, will arrive in the State on Saturday next and remain during the summer months. Prof. Crosby is not only an accomplished geologist but has a thorough knowledge of mining operations, acquired during ten years' experience in examining mining properties in the West.

We had the pleasure of a call a few days since from Mr. F. W. CROSBY, Supt. of the Morancy mine at East Sullivan. Mr. Crosby has just returned from a prospecting trip along the south-eastern shore from the Penobscot to the St. Croix, and reports having discovered several very promising mineral veins. He is at present engaged in opening up what he believes to be an exceedingly valuable property at Wau-

keag Neck. A well defined vein, 15 feet in width, carrying at the surface a considerable amount of fine-grained galena together with a little copper, shows itself on the beach, and a shaft is being sunk on the bluff to tap it at about 12 feet from the surface. Probably ere this the vein has been reached.

MR. DESHLER WELCH, manager of the Boston office of the New York *Daily Mining News*, has been in the city for the past week, procuring information concerning the mining interests of this State and soliciting business for his paper. We heartily welcome him to this locality, and take this method of introducing him to our mining men. Mr. Welch is a gentleman in every sense of the term, and it must prove immensely beneficial to the cause for the success of which we are all striving, to have our interests represented in New York City by such an able and influential newspaper as the *Daily Mining News*. It is one of the few mining papers on this coast which have the confidence of the entire public.

We received a few days since, a call from CAPT. SARGENT, Superintendent of the Ellsworth Silver Mine. The Captain thinks the MINING JOURNAL has done him as well as the other officers of the company an injustice in the somewhat severe comments which have appeared from time to time in its columns with regard to their property. He states that a scientific man, Prof. Prince of New York, has located their vein, and found it to lie along the southeastern side of the shaft, which during the process of sinking has cut into it in several places, at which times the rich ore shown as coming from the property was taken out. The workmen are now engaged in drifting for the vein, under the direction of an experienced miner. The officers of the company still think they have a valuable property. We sincerely hope it may prove to be such.

Dips, Spurs and Angles.

The copper mines of Michigan have paid over \$26,000,000 in dividends.

Wives are wanted in Leadville, and the duties are quite light. Nothing but cook the dinner, wash dishes and dress gunshot wounds.

DR. FELLOWS recently returned to Maine from a tour among the gold regions of the Chaudiere and exhibited to us quite a quantity of gold obtained by him from that promising district.

A Kentucky girl says when she dies she desires to have tobacco planted over her grave that the weed, nourished by her body, may be chewed by her bereaved lovers. There is poetry in the idea.

Mr. James G. Fair, of mining fame, is just now amusing himself in China. If there was only a Stock Board in Pekin Mr. Fair would make a first-class bull in the China shop.—[*Chicago Tribune*.]

A scientist informs us that "the skulls of the African negroes are dolichocephalic, mesocephalic, prognathous, pterygine, and mesosene." No wonder the West Point officers think Whittaker clubbed himself.

Cadet Whittaker's unknown assailant bids fair to travel incognito down the echoing galleries of fame, arm-in-arm with the vandal who fired the Ephesian dome and the man who struck William Patterson.—[*N. Y. Star*.]

They have opened a new route to Lake Mooselucmagentic in Maine. But the man who isn't willing to go the longest way round in order to reach a lake with such a name is too mean to go fishing, anyway.—[*Boston Globe*.]

The latest news from Leadville is, that there has been a leap year ball, which was conducted in proper style. The girls had three knife-fights and then a general shooting affray while the men huddled together in a corner and yelled.

Among the lately reported curiosities taken from a Nevada mine, is a piece of sandstone, with grass roots still clinging to it, showing native silver all over its service, petrified wood impregnated with ruby-silver, and a mass of chloride of silver, that assayed \$8,000 to the ton.

From a paltry 75 cents worth of iron ore may be developed \$5.50 worth of bar iron, \$10 worth of horse-shoes, \$180 worth of table knives, \$29,480 worth of shirt buttons, \$208,000 worth of watch springs, \$400,000 worth of hair springs or \$2,500 worth of pallet arbors used in watches.

Many of our citizens will remember "Si" Thompson, who was local editor of this paper in 1877. The Danville, Ill., *News* perpetrates a joke on that inveterate punster, saying that he has gone to Chicago to engage in the soap business with Clark L. Peyton, the latter furnishing the grease and Thompson the lie.—[*Silver World*.]

A pneumatic clock company has been organized at Paris which proposes to put up clocks in the streets and houses and furnish the time at a trifling cost per day. This is done by pneumatic pressure, the air being compressed by steam engines and driven at intervals of a minute through the communicating tubes so as to move the minute hands the requisite distance at each pulsation. The company undertake to pay all the cost of the fittings, supplying the clocks gratuitously and charging only a subscription.

In 1849, when gold was discovered in California, there was not between the Missouri River and the Pacific ocean, or from Manitoba to Sonora, over 25,000 persons of Caucasian stock and not 3000, all told, speaking in English as the tongue of their nativity. Now there are 3,000,000 persons in the same area; there are 10,000 miles of railroad, and nearly twice that of telegraph; there is a property valuation of at least \$3,000,000,000, six prosperous states and nine territories, growing in wealth and population, now producing in precious metals at least \$85,000,000 annually, and also embracing the three largest wheat growing states in the Union.

The *Territorial Enterprise*, in the course of an article in one of its recent issues, said: In thirty years the few men on this coast have produced \$1,400,000,000 in gold and silver; have built one great city and many smaller ones; have created three States, and from an area greater than half of Europe, have hauled down the black banner of barbarism and run up the flag of civilization; have founded beautiful homes in the valleys, and even on the tops of our desert mountains have frightened the solitude with the scream of the steam engine, and have drawn to a region which, when we came here, was marked "unexplored," the attention and wonder of the world.

Prof. Thomas Egleston read a paper a few evenings ago before the members of the New York Academy of Science, on the origin of gold nuggets and of alluvial gold deposits. He said that all the placer deposits were in sands, which were alluvial and of two kinds,—shallow and deep. The deep placer deposits of California averaged thirty or forty cents per square yard. The time would come when the "tailings," which are now wasted, would be worked to greater advantage than much of the lighter deposits. In discussion with J. S. Newbury, President of the Academy, Prof. Egleston affirmed the solubility of gold, and stated

that the large nuggets were formed by a process of chemical deposit.

MINERAL WANTS.

BY F. L. BARTLETT,

STATE CHEMIST, PORTLAND, ME.

The attention of our people has of late been largely drawn towards our mines; much prospecting for the precious metals has resulted, and we can now boast some fine mining properties which bid fair to yield good and legitimate returns.

Yet it is a somewhat curious fact that with all the pounding and thumping of rocks, with all the digging and blasting that has been going on, no discoveries of economic minerals have been made. We need good mines of feldspar, mica, manganese, mineral paints, hydraulic limestone, sandstones, iron ores, mineral phosphates, etc.; any or all of these if well located would pay. The one great reason I suppose why no discoveries of these minerals have been made is found in the fact that every one has been seeking gold, silver or copper and in their eagerness to find them have quite overlooked the fact that there are other mineral productions in the State which are nearly if not quite as valuable in their way as the precious metals. That Maine is able to furnish many if not all of the above named minerals I am quite positive, indeed they are all found in some quantity though not always enough to pay and the location frequently is against the profitable working of them.

I now propose to notice some of the more important minerals more especially those which I have frequent calls for and inquiries about.

MINERAL PAINTS,

including the red, yellow and brown ochres are in good demand, also clay and slate paints and various silicates. Any earthy material that will withstand acids and alkalis moderately well and possesses a uniform tint and containing no organic matter, will generally answer for paint. Oxide of iron mixed with silica forms the basis for a good fire proof paint; the same mixed with clay forms ochres and sienas. This iron oxide plays an important part in these mineral paints as it exists in several colors and shades according as it contains more or less oxygen combined with it or other metallic oxides, as manganese, lead, copper, etc.

The proper place to look for the ochres is around and about the bases of hills or mountains that contain iron pyrites in their rock formation. The iron pyrites oxidize by exposure and oxide of iron with sulphate of iron is the result. This washes down into the valleys; on the way the sulphate becomes decomposed by other chemicals and the iron precipitated as oxide, usually the *red oxide*, which settles at some depressed point, mixes with the soil or clay and forms beds of mineral paints. Oftentimes bogs and pond bottoms are covered with these deposits which have accumulated in the manner above described. Where springs break out of hill sides showing much red oxide about the source there will usually be found more or less of the ochres; oftentimes it is necessary to remove the soil to find the deposits. Many low bogs or meadows contain good paint deposits under two or three feet of soil. I am satisfied that there are many people in the State who know of such deposits and at all events by a little exploration they are sure to be found.

MANGANESE.

The uses for manganese are increasing. The binocide now sells for a good price. Enormous quantities are used in the manufacture of bleaching salts for refining, for making oxygen gas for batteries, etc. The largest use of it by far is for making bleaching powder. In this connection the use is largely increasing every year. It is also used for coloring and glazing pottery and glass. The two kinds of manganese most useful in the arts are the bog manganese and and Pyrolusite or the binocide. Both of these minerals are

known to exist in this State. The former is found in bogs and marshes in the form of soft black earth, sometimes quite firm and hard; it stains the fingers when wet to a blue-black color. Mixed with iron oxide it forms umbers useful for paints. The most important ore of manganese is the binocide, often called black oxide. This contains when pure 63 per cent. of manganese and 37 per cent. of oxygen. It occurs in the form of an iron-black or steel-grey mass sometimes having a blueish cast. It is rather soft and brittle. There are many other ores of manganese, none of them however so useful as the two mentioned. Manganese spar occurs quite abundantly with us, especially on Blue Hill Mt. This ore is used somewhat in iron smelting. All three of these ores of manganese are found in Maine. The binocide has not yet been found in large quantities, yet there is every reason to believe that it exists in profitable quantities. The binocide brings in the market from \$30 to \$75 per ton according to purity.

HYDRAULIC LIMESTONE.

This material has been found in many places in the State, but as yet not in sufficient purity and quantity to pay profitably for working. It occurs as a fine grained compact hard rock, generally of a yellowish grey color, sometimes blueish-grey. It is found in limestone regions and is nothing more nor less than impure limestone. When burned and reduced to a fine powder and mixed with water it *sets* firm and hard and oftentimes becomes harder than the original rock. It derives its name from its property of setting under water. Hydraulic limestone must contain 10 per cent. of silica. The following analysis represents about the correct composition for a good hard setting cement:

Carbonate of lime,	82.82
Carbonate of magnesium,	3.76
Silica,	11.76
Oxide of iron,	1.66
	100.00

The above analysis represents the composition before burning. The amount of silica often reaches as high as 20 per cent and the other constituents are often in variable proportions. The best way to test the suspected limestone rock is first to see if it will effervesce with dilute muriatic acid; this shows the presence of carbonates of lime or magnesium; if the powder wholly dissolves in the acid then it contains too much lime, but if one-third or one-fourth its bulk is left as an insoluble residue, the chances are that it may be hydraulic, and it may be ground fine, burned at a low, red heat, made into mortar and left under water to see if it will harden. From two to twenty days will be required for the cement to acquire its maximum hardness. In this manner almost anyone can test rock that may be supposed to be hydraulic. The government uses large quantities of this cement in submarine work and in building stone and brick work of various kinds. A good deposit of it in a locality of easy access would be extremely valuable.

The writer would be glad to communicate with any one in the State in regard to any of the minerals mentioned in this article and will with pleasure pronounce an opinion on any earths, minerals, cements or ores that may be forwarded. Mica is in good demand, also feldspar. At the present time there is a constant inquiry for all these things and if we have them in our State let them be brought forth and utilized.

Portland, June 14, 1880.

A Layman's View of It.

Editor Maine Mining Journal:

I am no miner, either theoretically or practically. Whenever anyone begins to talk of "argentiferous galena lying in the Huronian deposits among schistose slates" I listen in respectful silence. But I look with interest upon the Maine mines and if

a few unprofessional remarks concerning some of them are acceptable you are heartily welcome.

Last Friday I took up with an invitation to visit the "Egypt District," situated on the borders of Hancock and Franklin. Within easy rifle-shot of each other, but on various leads are located the Robert Emmett, Egypt, Hancock, Clark, and Hagan mines. Many of them are looking extremely well, report says, but the one just now attracting most attention both from the novelty of its appearance and the richness of its showing, is as yet unincorporated. It is located on what is termed the "Butler property" and was leased some time since by Dr. Hodgkins of Ellsworth. It will probably be incorporated soon as the "Custer" mine. Nothing has been done in the way of development till within a few days. Beginning where a little knob of rock glistened with copper sulphuret, the soil was removed, and a moderate charge of powder placed in an unpromising rock, that, in the opinion of the superintendent, Mr. Barney Mullan, an experienced miner, served as a "cap." After the explosion his prophecy was confirmed, for underneath appeared a vein of copper ore 4 ft. in width and the vein wall not discovered on either side. He forwarded a piece of the copper ore to Ellsworth for an assay; but by a misunderstanding an order was given the assayer, Mr. Fisk, to try for gold, silver and copper. He reported as follows: Gold, none; silver, 3 ounces; copper, (11.2) eleven and two-tenths per cent to the ton of 2000 lbs., thus demonstrating beyond a peradventure that paying ore exists at the very surface. Since then a large deposit of rich oxide of copper has been dislodged by a blast, which with the sulphurets and carbonates and probable silver sulphides give a very encouraging outlook. The vein has been very skillfully followed for fifty or sixty feet and the superintendent declares that all he desires is for an old miner to come and look at it. The "Testimony of the Rocks" will render further comment needless even to the "savans" of Western Maine.

We next visited the Robert Emmett mine, Mr. Patrick Mullan, Superintendent. Mr. Mullan is experienced in the work that looks so stupendous to those unaccustomed to mining operations, and although he says his shaft is going farther and farther from the vein with every foot of depth he pushes forward unhesitatingly relying on his unshaken belief, confirmed by the report of Prof. Stewart, that at the depth of 80 or 100 feet he can drift and find paying ore. The shaft is nearly 60 feet in depth and timbered in the most workmanlike manner. If some of the croakers and panic-stricken, or even the skeptics would visit "Egypt" they would demonstrate that "seeing is believing." They would find earnest, sanguine men at work, regardless of stock quotations, relying on experience earned by long apprenticeship in the West. They would discover men who have entered upon mining, not as a speculation, but as a business; who do not expect a fortune in a day, but who do expect an eventual dividend upon their investments and an abundant reward for their labor.

Ellsworth, June 14, 1880.

Mining Matters in Portland.

[From the Boston Economist.]

PORTLAND, June 5, 1880.

There is a commendable degree of activity being displayed by the various mining companies represented in Portland. Those which, in the days of the March "boom," foresaw coming trouble and prepared their treasury against it, are pushing operations, and by fall will be able to make a showing that will put them beyond the reach of financial accidents hereafter.

Our mining men are learning one lesson which it is to be hoped they will take to heart. When many of the companies organized, large considerations in stock were made to certain estimable, wealthy and easy-going citizens to become president, and lend their names as ornamental figure-heads to the list of directors. These men really have had nothing to do with the management of the companies they appear as presidents of, beyond affixing their autographs to the stock certificates. The real management of the companies devolved upon the speculator who sold the club stock, and occasionally it has happened that the mine has been managed more to sell the stock than to dig for mineral. This sort of thing is by no means new to the world, but it was to Maine. It was, perhaps, a necessary experience to fit our people for the proper appreciation of the reality and magnitude of the business into which many of them rushed so quickly. Now the stockholders in these companies are beginning to awaken to the manner in which they have been used, and when the days of annual meetings come around again they will make short and effective work with the figure-heads which lured them on to unprofitable investments, at least so far as their connection with the companies are concerned.

As to mining news in general, there is plenty of it. The Haviland copper mine, of New Hampshire, is pushing operations upon their splendid property on Gardner Mountain. They

are driving for the Bonanza vein in the east drift, and Mr. Varden, an English mining expert who recently examined the property, predicts that it will be struck before going many feet further. Doubtless at this writing they are in the vein and beginning to take out good ore. The surface appearance of the vein indicated great richness.

The shaft on the Bullion mine on the Acton lode is now down nearly ninety feet, and is looking finely. The buildings for the company are being hurried forward. One of its near neighbors has recently, at a depth of about ninety feet, struck into a rich streak of galena, thickly sprinkled with gray copper which assays several hundred dollars per ton. There has been a deal of prejudice excited against the Acton mines,—perhaps not altogether unjust,—on account of mistakes in management, but every foot attained in depth has fulfilled the predictions of the mining experts and geologists who made the preliminary examinations of the property. The arsenic and iron which was so plentiful on the surface is gradually disappearing as they go down, and the ore is becoming more massive and richer in silver. Stockholders in companies which have any money in their treasury and brains at the helm are in no wise discouraged, as a rule, though the world is plentifully supplied with that class of persons who rush to sell the moment stock falls a point.

The El Dorado, one of the most northerly mines on the lode, is one of those companies about which no complaints are heard. The treasurer, Mr. C. D. B. Fisk, is a young man of very marked business ability, and the company is composed of men who have made money in every enterprise they have undertaken. Only a limited amount of stock has ever been sold, and Mr. Fisk took care that the treasury was early placed beyond the reach of accidents of the stock market. As a consequence, their bills are promptly paid, their credit is good, work on the mine goes right along, and stockholders have a happy and contented look. One contract for sinking this shaft is just out and a new one for continuing the work is being negotiated.

The Edgemoggin mine, of Sedgwick, will take measures at the adjourned annual meeting, the 14th of this month, for pushing operations in the future even more effectually than in the past. Some fine ore was recently struck in the east drift, and the consequence has been a material stiffening up among the stockholders. The election of officers is likely to result in a change in the *personnel* of the management of the company. This is one of the oldest mines in Maine.

One of the promising companies of Eastern Maine is the Eagle Brook Silver Mining Company. The headquarters of the company are in Portland, and the property is within a few rods of the steamboat landing at Sedgwick. The company was organized and named after a brook flowing across the property and a promising silver-lead vein which cropped out at various places along the property. Prof. Bartlett was sent down to make an examination of the property. When he returned he called the directors together and told them that while they had a very good silver mine they had an infinitely better copper mine. In prospecting the property he had uncovered a quartz vein carrying copper of about 8 per cent richness on the surface, and nearly thirty feet in width. The company are now putting in a crosscut to more accurately determine the extent of the vein and are making preparations to prosecute a thorough and systematic development of their property. They are confident they have a good thing and propose to make the best of it.

C. W. HOBBS.

MINING TERMS.

Interesting Explanation by General Frank Hall.

General Frank Hall, in a recent communication to the *Denver Inter Ocean*, gives the following information with reference to some mining terms, which are generally imperfectly understood:

"The difference between a *mine* and a *prospect*, though entirely clear to the miner, is but vaguely comprehended by those unfamiliar. For the advisement of the latter the following examples are given, with mining idioms. To begin with there are in Colorado three distinct classes of mines and prospects. First, and preponderant at the present time, 'true fissure' veins, abundantly illustrated in the counties of Gilpin, Clear Creek, Boulder, Park, and in San Juan mountains. Second, the mineral deposits in horizontal strata, as in Mounts Lincoln and Bross, and third, the carbonate formations about Leadville, in the Dolores and Gunnison districts, and in Summit county, along Ten mile and the Eagle river. The true fissure penetrates the earth crust vertically, or at various angles from ten to forty or

fifty degrees, and is a vein of mineral 'in place,' that is to say, in a fixed position, and according to the accepted theory, practically inexhaustible. The carbonate formations are, as a rule, horizontal deposits in contact veins, between two distinctive geological formations—as porphyry and limestone. A mine, as distinguished from a mere prospect, is something which has produced, and is capable of producing valuable material, demonstrated not by a shaft alone, but levels, stopes, adits or drifts along the vein, developing the strength and character of the mineral body it contains. Whether the shaft be fifty or five hundred feet deep; it is not a mine, in the legitimate sense, until these developments have occurred, and its value thus established. The shaft is a form of prospecting. A tunnel on the vein, instead of by shafting, is of the same nature. The levels and stopes constitute the development from which the profits are derived. A shaft rarely produces sufficient ore to pay for the cost of sinking, and it is the central point from which the explorations are conducted. A fissure 'prospect' is a surface excavation, which uncovers the vein. It cannot be lawfully claimed as a location until the vein is exposed and its walls defined. It does not, as in the carbonate fields, acquire the slightest prestige or value as a prospect from its proximity in parallel lines to noted producers. It must rest upon its own merits solely, regardless of the treasures on either side of it, and its owner must rely solely upon development for the demonstration of its value. A carbonate prospect, on the contrary, derives both prestige and value from its relation to surrounding claims, in which large bodies of rich mineral have been exposed. Vast sums have been invested in this class of ventures. Many of them will prove extra-hazardous, but a very large number will undoubtedly return abundant harvests in good time. Hundreds are taking the chances, and in the results lie the future of the carbonate camps of the State."

Mining in Leadville.

A correspondent of the *Virginia Chronicle*, a former Comstocker, writing from Leadville, gives some quaint descriptions of the way they do things in the land of blanket ledges. We make the following extracts from his letter: "Preparations for the proper development of the mines are being made by men from California and Nevada, and in place of the tenderfoot style of working, consisting of a whim with a Missouri mule attached to it, and a wheelbarrow with a man behind to shove it, and another in front attached to a rope to pull, the engine is being used. Just think of men hauling ore out of a coyote hole 200 and 300 feet on an incline of 20 degrees with a wheelbarrow. That's the kind of miners they have out here—fellows who have been skinning mules and whacking bulls all their lives—and they will assert themselves as thorough miners. It would make a Washoe canary laugh to see them at work. On some of the mines there are trestle works 15 to 20 feet high, and in order to keep these fellows from falling off when they run a car-load of dirt out, the companies have to fence and house in the track, and then they sometimes manage to squeeze through. The largest wire rope that I have seen since I came into the camp is one very nearly as large as the bell ropes used in the Comstock mines. It comes from Lake Superior, where, I am told, there are some very large mines and monstrous machinery. There has not been a man for breakfast for the last forty-eight hours, nor has there been a lynching matinee. The last man shot here was a man who attempted to jump the County Hospital. He was shot in the leg, and now the Sisters of the institution are healing his wounds at the county's expense. There is a class of men here who would jump a grave lot if they thought they could get away with it."

Book Notices.

GEOLOGY OF EASTERN MASSACHUSETTS, by PROF. W. O. CROSBY, of the *Boston Society of Natural History*.—We have

received with the compliments of the author, a copy of the above valuable work. It is a carefully prepared treatise, and is the result of several years' careful study and exploration. It is also accompanied by a beautiful map showing the geological formation of the eastern portion of the State. The whole is a work of great value and places Prof. Crosby at once in the foremost rank of our scientific men and geologists.

LODES, LEADS AND VEINS.

Hampden.

NOROMBEGA.—The shaft is now being timbered. A ton of ore has been shipped to the smelters in New York City.

LAWRENCE.—Rapid progress is being made and everything is looking finely. We have just received from Supt. Holt, a quantity of very handsome ore from the bottom of the shaft, which may be seen at this office. The *New York Daily Mining News* of Saturday next will contain a description of the mine from the pen of Mr. Deshler Welch, who is at present sojourning in this city.

CONSOLIDATED HAMPDEN.—Excellent progress is being made. The vertical shaft is now about 150 feet in depth and is one of the deepest in the State. The company have voted to purchase an air compressor capable of working three drills and a pump, and upon its arrival the mine will be very thoroughly equipped. The company is supplied with ample treasury funds and the mine is in charge of Mr. Thomas Cahill, a very competent Superintendent from Nevada. The mine has this week been listed on the Boston Stock Board.

CARMEL ANTIMONY MINE.—It is with much pleasure that after a visit to this mine we can conscientiously speak of it in the highest terms. As its present condition warrants the belief that it is to be a permanent and paying institution, we are proud of the fact that its development is due to Bangor enterprise and that the owners are all resident in this vicinity. The farm upon which the mine is located occupies a depression or small valley between high ridges of the same geological formation as the greater portion of Penobscot county, viz: schistose slates, intersected by bands of chloritic quartzite or "green-stone." Many years ago, upon the bank of a brook which traverses the property, a large boulder was found which contained a considerable amount of high grade antimony ore. It was the opinion of Prof. Jackson who failed to discover anything of a similar character in the surrounding rocks, that it had been brought from a long distance, probably from Canada, during the glacial period. Several years later, however, antimony was discovered in the bed of the stream at some little distance below this point, and collectors were in the habit of coming from long distances to secure specimens. Later still, parties commenced to sink a prospecting pit near the site of the present opening and found what they concluded to be another boulder, containing antimony, embedded in the clay, but which has since been found to be a spur of the ledge. As the water from the brook was the source of much trouble, and as they did not succeed in finding the ledge as they thought, further explorations were discontinued. Dr. H. F. Hanson of this city prospected the property pretty thoroughly during the past winter, and as a result of his observations became convinced that an ore-bearing vein existed in that locality, and finally decided upon the present location for the shaft. The first 5 or 6 feet was through an ordinary clay bed; then came 4 or 5 feet of coarse gravel containing loose rock and boulders charged heavily with mineral. At the depth of about 10 feet the solid ledge was struck, and what was better, a body of rich antimony ore. A fine clay seam or selvage several inches in width was found and has continued to the present depth, thus assuring the permanency of the vein. The shaft which has now reached a depth of about 20 ft. shows, adjoining the clay seam, about two feet of beautiful white quartz heavily charged with

sulphuret of antimony or *Stibnite*; in addition to this the remainder of the bottom of the shaft is almost a solid mass of ore interspersed with stringers of quartz and green-stone. In the absence of any well-defined wall on the opposite side from the clay seam and from the presence of ore across its entire width, we are led to believe that the vein has not been fully disclosed and that one wall is yet outside the limits of the shaft which is nearly 15 feet in width. An ore house partially completed is already nearly filled with ore which has been removed during the process of sinking. The rock yields nearly 60 per cent of ore (*Stibnite*) of which 74 per cent is pure antimony and 26 per cent sulphur. It is very easily worked, being so pure as not to require crushing, but can be smelted just as it is after being cobbled or hand-dressed. As there seems to be no possible doubt of the existence of a massive ore body extending to a great depth, and as the antimony after being smelted will bring in the market at present prices about a shilling per pound, it will at once be seen that the company have a bonanza on their hands if the mining is carried on systematically and economically, as we have reason to think it will be. The shaft will at once be cribbed up and timbered substantially, hoisting apparatus will be placed in position and the work of sinking will be rapidly pushed. A smelting furnace is contemplated at an early day, in order to treat the ore upon the ground and save expense of shipment. Numerous assays which have been made show the presence of considerable silver in the ore, and it is not improbable that before a very great depth has been reached the property may develop into a valuable silver mine. The parties most prominently identified with the enterprise are Dr. H. F. Hanson, J. F. Parkhurst, and H. L. Leonard of Bangor, and Capt. John F. Dorr of Carmel who is at present superintending operations at the mine.

Sullivan.

FANEUIL HALL & SULLIVAN.—Supt. Hayward reports: "Have just completed a tunnel which runs from the high tide level and strikes the shaft at a depth of 22 ft. from the surface. The tunnel is 38 feet in length and is all timbered ready for use and will be used while sinking by hand as a rockway and also for ventilation. The blacksmith shop will be completed by the 15th of the present month. The shaft has been sunk to the depth of 22 feet and as soon as a safe depth has been reached the company will erect extensive buildings and put in elaborate machinery. The foundation for a large building is nearly completed."

The following items concerning the mines of the Sullivan district are from the *Sullivan Bulletin*:

SULLIVAN.—The timbering of shaft No. 2 has been completed, and the work of sinking resumed. A large force of men are employed erecting the mill, the frame of which is up and ready for boarding.

PINE TREE.—Drift from 125 feet level is still being advanced and the usual progress being made. Everything about the mine is in good order and working well.

PORTLAND SULLIVAN.—Down 18 feet in shaft and making first-rate progress, showing quartz rock well mineralized.

MILTON.—Shaft in No. 1 has reached a depth of 142 feet. Work progressing uninterruptedly. Sinking in shaft No. 2 has been suspended for the past week for the purpose of timbering.

SALEM SULLIVAN.—The shaft is now down 35 feet. Character of ore improving with every foot of depth attained. The company will erect a shaft house, blacksmith shop, etc., immediately. The shaft house will be 55x28, one story and a half high. The showing at this mine is excellent.

BOSS OF THE BAY.—Eight men have been at work for the past week. Vein shows heavy sulphurets and blue carbonates of copper. Pay streak four feet strong.

Franklin.

A correspondent states that an expert has recently visited the Franklin mines and traced the vein upon which the "Franklin" is located a distance of two miles. The properties are all taken up along this lode. Those at present being worked are the Franklin, Franklin Extension, Frenchman's Bay and Clark. There are two or three more soon to be started, one—the second property from the F. Extension—by the Portland Mining Exchange. This will embrace 800 feet on the vein which is found to be at this point 10 feet wide. The Swan mine north of these properties is located in the same mineral belt and is making a brilliant showing. Very fine ore for the comparatively slight depth attained is now being taken out.

Blue Hill.

The prospect at Blue Hill is very encouraging. The work of development is progressing rapidly in the leading mines and ore in considerable quantities is daily being taken from several of them. At no time in the history of mining in this district has the outlook been so flattering. Special interest is taken in the large mill of the Douglass company which will be in operation in a few weeks and will demonstrate to the world the great value of the immense copper deposits of Blue Hill. Numerous buildings are now in process of erection in the pretty village. Capt. M. K. Chase is building a two story structure with a French roof, the building to comprise a store, hall and offices. Mr. Frank Green and Mr. McIntyre are putting up houses in the village. Mr. Henry B. Darling has recently completed two dwelling houses on the property of the Atlantic company which will be used by workmen in the Douglass mine. The village presents quite a lively appearance and the harbor contains numerous vessels and yachts.

DOUGLASS.—A few days makes a great change in the mill. Under the skillful supervision of Mr. J. B. Wilford, the machinery is rapidly being put in place. The mill was manufactured for the Douglass by Messrs. Shoener & Allen of Tamaqua, Pa. The *MINING JOURNAL* recently gave a brief description of the mill and we will soon give a much more elaborate one. A large water tank has been erected on the north side of the mill, elevated some distance above the level of the ground. An adit has been run across the property from the upper to the lower pond giving a 4 foot head. The water is raised from the pipe to the tank by a pump and it can then give a supply to mill, shaft house, boarding house and any part of the works. The boiler and engine for the main shaft house were made by Shoener & Allen, and are now being put in place. The shaft is now 100 feet in depth and the immense ore dump is daily receiving large acquisitions. The boarding house is 60ft. by 30ft. in size and is a neat building; the furniture has just been moved in and the workmen will probably take up their abode there the last of the present week. The house has accommodations for fifty men and will be kept by Mr. Royal Moore, of East Blue Hill. A stable 48ft. by 20ft. will shortly be built.

BISBEE.—At the annual meeting of the stockholders in Belfast on the 8th of the present month the old board of officers was re-elected with the single exception of Superintendent. Mr. James Mitchell, of Belfast, has been jointly engaged as Superintendent of the Bisbee & Excelsior. Money has been raised by the two companies so that the work of development can be prosecuted till next spring and long before that time the mines will probably be well opened and their value determined. The crosscut to the north from the shaft is in 35 feet.

EXCELSIOR.—Mr. Mitchell, the new Superintendent of the Bisbee and Excelsior, brings to the position many important qualifications. The Excelsior is supplied with a commodious boarding house and a handsome office. The shaft is now down 31 feet.

ATLANTIC.—Work continues in the crosscut and in the westerly drift, the former being in 53 feet and the latter 13 feet,

Ore is being raised in considerable quantities and boys are employed cobbing it and sorting for shipment.

CITY OF BOSTON.—The force of workmen has been reduced somewhat and the progress is necessarily slower. Superintendent O'Connell is doing very excellent work.

BLUE HILL.—Capt. Moyle has made many radical changes since he has taken charge. Everything about the works assumes a business aspect and the work is being done in good mining fashion. Capt. Moyle has for thirty years been engaged in mining, the last fifteen years in the copper mines of Lake Superior and we congratulate the Blue Hill Company on securing his valuable services. The mill has been shut down; it has never proved a success and it will probably be supplanted in time with a larger and more approved one. The easterly shaft is now being sunk on the vein and a depth of 70 feet has been reached. In the westerly shaft on the 90 foot level drifts 80 feet in length have been run and now the drift is being extended to strike the easterly shaft. The drift is running through a well defined vein showing good copper ore.

TWIN LEAD.—The crosscut is being extended to the south and is now in 28 feet.

YOUNG HECLA.—Supt. Duff under date of June 14th reports as follows: "Our shaft has reached a depth of ninety-five feet and at present shows in the bottom a large body of mineralized quartz carrying iron, copper and silver. This fact (in my opinion) proves conclusively our near approach to a large body of ore, to the south. We have also reached the same level of the Twin-Lead Co's cross-cut and shall cross-cut south to hanging-wall, then drift east and connect with west drift from Twin-Lead shaft. This will be of great benefit to both mines for the purpose of ventilation. All goes well."

FAVORITE.—The shaft has reached a depth of 34 feet and the ore continues to show improvement. Very superior ore has been taken out.

BLUE HILL CENTRAL.—The shaft is down about 50 feet. The mineral comes in from the north and the ore body now fills half of the bottom of the shaft. A considerable quantity of very handsome sulphurets of copper has been taken out. The mine is a very promising one.

STOVER HILL.—The work in the cross-cut continues. Several blasts have been discharged in the vein on the north end of the property on the side hill and a good quantity of handsome copper ore was exposed.

WHITE STAR.—The work on the property has been suspended.

GRANGER.—Very rapid progress has been made in the development of this mine and Col. Granger is deserving of much credit for the skill and energy he has exhibited in pushing the work. The shaft is now down 52 feet and a foot and a half has been made each day for some little time. The walls of the vein are very well defined and the quartz rock shows good mineralization with copper.

JERSEY.—The work is progressing under Supt. O'Connell and the shaft is now down 33 feet.

TRIO.—Mr. Arthur Hunt has assumed the superintendency and with his accustomed energy is pushing the work. The vein has widened considerably in the last few feet.

REVERE.—Under the energetic superintendency of Mr. Wilkie Darling everything is being pushed. Three shifts are now worked and no time lost. The shaft is down 45 feet. The gallows frame 30 feet in height has been raised. The wharf recently built by the Revere and Silver Reef companies is now a regular landing for the steamboats.

SILVER REEF.—The shaft is now down 35 feet and good progress is being made.

LADY ELGIN.—The shaft is down 51 ft.; it is 14 ft., 8 in. by 5 feet in the clear and is now being timbered into three com-

partments. Supt. Pearson informs us that numerous stringers containing handsome copper sulphurets have been cut through.

PENOBSCOT.—The shaft has been sunk to a depth of about 50 feet. Very beautiful quartz crystals continue to be found in the vein.

TAPLEY.—A large force of men are being employed. The vein which is of great width has been stripped for a length of 70 feet and to a depth of several feet. A shaft is being sunk and it is now 12 feet down. The ore is massive copper sulphurets of a high degree of richness and about two hundred tons are on the dump. The showing is one of the most brilliant yet seen in the State. A very large number have been to view this bonanza and they have all been surprised at its magnitude. The company will probably be organized in a few days.

LINCOLNVILLE.—The *Rockland Opinion* says: "Work at the Lincolnville Mining Company's works is proceeding actively, and the ore constantly increases in richness. A very large number of assays have been made, and the results conclusively show that the early reports were not exceptional, but that the average of the products of the mine are among the richest ores found. But few mines in the country can show results comparing with advantage to these. An assay made by F. F. Phillips, of Rockland, May 14, gives 221 oz. silver per ton, or \$251.94; another, made May 26, by the same gentleman, sulphurets, gives gold to the value of \$9.34 per ton. Mr. Frederic R. Page, of Camden, made two assays of the ore, just as it comes from the mine, June 5, which resulted as follows: No. 1 contains per ton 14.05 oz. silver, amounting to \$16.57, and 1.10 oz. gold, amounting to \$22.72—a total of \$39.29 per ton; No. 2 contains per ton 9.55 oz. silver, amounting to \$10.98, and .85 oz. gold, amounting to \$17.56—a total of \$28.54 per ton. The average of the assays gives over \$250 per ton on the galeña. Those familiar with mining enterprises will see that the proprietors of this mine have got a good thing. The certificates of stock have just been printed, and the stock is now on the market. Crushers and concentrators have been ordered, and will soon be on the ground and in operation."

DEER ISLE.—This company is now in first-class condition in every respect, and as soon as arrangements can be perfected, the mine will be placed under the most competent management which can be procured and supplied with all necessary machinery, etc. The company are abundantly supplied with funds and with nearly one-half the stock set aside for the benefit of the treasury, the future prospects are certainly very flattering. The stock is at present held firm by the large holders who are not willing to sell at any figure. The floating stock is being taken up quickly at the present current price. Prof. Stewart's report, soon to be published is a very enthusiastic one and is all that could be wished.

LITTLE SUE.—The Little Sue shows mineral for a distance of 800 feet. Five prospecting shafts have been sunk on the vein, from 9 to 16 feet in depth, in two of which a fine grade of galeña has been found.—[*Sullivan Bulletin*.]

NARRAGUAGUS.—The Narraguagus Mine has one of the best defined veins on record. The vein is 12 ft. wide, very regular, and has what delights the miner's eye, a fine clay selvage or gouge on both walls. A peculiar feature of this vein is that it has under the hanging wall about three feet of soft decomposed stuff that yields readily to the pick. This is a very encouraging symptom and is of immense service in sinking.

ACTON CON.—Work at the mine is progressing as usual. About one-half of the stock of the old Actons has been sent in. It comes slowly now, but "first come first served." After the charters of the old companies have expired no stock can be exchanged.

SHELBURNE.—The Shelburne Mining Company have recently purchased the Forest City machinery and are just commencing

ing work in earnest at the mine. One and one-fourth tons of ore from the dump have just been shipped to New York City (oke's) to be smelted. The workmen have just found buried under about 10 feet of earth, an old store-house in which was discovered upwards of 10 tons of crushed ore which assays (Bartlett) 71 per cent of pure metal, (silver and lead.) This is quite a bonanza for the company as they did not know of this when the property was purchased. This will be shipped at once to the smelting works. This mine, from all that we can learn is a magnificent property. The officers of the company are among the most reliable and energetic citizens of Portland, the organization is upon a substantial basis and the treasury is well provided for. The mine will soon be listed upon the New York Stock Board.

Deep Mines in Nevada.

The depth attained is as follows: The Utah 1,980 feet, the Sierra Nevada 2,500 the Union Consolidated, Mexican, and Ophir, each 2,500, Consolidated Virginia and California 2,300 each. Best and Belcher 2,000, Hale and Norcross and Savage 2,400, Chollar 2,400, Gould and Curry 2,200, Ward vertical shaft, 2,168, Combination shaft 2,440, Yellow Jacket 3,000, Belcher 3,000, Crown Point 2,800, Overman and Caledonia each 1,900, Alta and Benton each 1,950, Silver Hill 1,300, Consolidated Imperial 2,800, Bullion 2,300.

Nuggets.

The mining regions will soon be besieged with summer tourists.

Some of the enterprising citizens of Ellsworth propose to erect a woolen factory in that city.

Bar Harbor expects a bigger boom in summer travel this season than ever before in its history.

The beautiful crystal garden of Rev. Samuel Annear at the Penobscot mine is much admired by visitors.

There is good demand in Portland for the stock of the Shelburne, Atlantic and Deer Isle mining companies.

A very promising copper mine is being opened at Gardner's Lake in the town of Whiting, Washington county.

A slight shock of an earthquake was felt in Biddeford, Day-ton and other towns in York county on Monday last.

Some of the wells in the vicinity of the silver mines in Sullivan, have become suddenly dry.—[*Ellsworth American*.]

Among the patents recently granted to Maine inventors is one to Prof. John Boynton of Saco for a process of extracting gold, etc., from ore.

The Fort Point House has been opened to the public. The grounds and surroundings have been greatly improved during the past spring.

A large number of mineral discoveries have recently been made in Brooksville and that town promises to develop into a rich mining region.

To accommodate the ever increasing travel to Maine night trains are at once to be put on between Boston and this city Sunday nights, running each way.

The steamer May Field makes two trips per week each way between this city and Blue Hill. The trip by water is one of much interest during the summer months.

On Saturday, the steamer New Brunswick will be introduced on the Sanford Line between Boston and this city and during summer season the steamers of this popular line will make daily trips.

W. G. Burnham and Prof. Lowrey of New Hampshire, are to be in this city next Wednesday for the purpose of exhibiting a new process of smelting the refractory ores of Maine mines.—[*Portland Argus*.]

A small knowledge of mineralogy is indispensable for those

who are to spend the summer in Maine. Half of the persons who go thither will expect to stake off a claim before they come back.—[*Cumberland Globe*.]

A quantity of ore marked "Diamond—S" lies at the wharf of the Maine Steamship Co. in New York City. If this comes to the notice of the parties to whom it belongs they are requested to claim their property at once.

Bangor, Maine, has a paper called the MAINE MINING JOURNAL, which is devoted to the mining interests of that State. It is a live, wide-awake paper, and one which we welcome to our exchange list.—[*Ruby Hill (Nev.) Mining News*.]

At Young's Point in Pembroke, about four miles from West Pembroke, a fine vein of silver bearing galena has been discovered. The vein on the service is from two to four feet thick, and rich in galena and copper. Work is to be commenced in a few days.—[*Sullivan Bulletin*.]

The strike at Leadville has broken out afresh and bids fair to become a serious matter. On Saturday last all places of business were closed, and more than 2000 citizens have been enrolled for military service. The managers and mine superintendents as well as the majority of citizens insist that no concessions whatever shall be made to the striking miners.

Among the theses delivered at the graduation exercises of the class of 1880 at the Massachusetts Institute of Technology, were the following: "Geology of Norfolk County Basin," by George H. Barton, North Sudbury; "Pan Amalgamation of Sullivan Ore from Maine," Frederic W. Clark, Chicago; "Concentration of Zinc Blende from Maine," Loring R. Mellen, Savannah, Georgia.

The St. John (N. B.) Globe has just put up a new double feeder printing machine, manufactured by R. Hoe & Co., New York. The duty on the article was \$500. The Globe says: "We can only hope that the machine will materially aid us in doing our own share of the work of driving from power a government that imposes such taxes upon enterprise and the promotion of intelligence."

On a recent trip to Portland, Capt. Ingalls of the Sch. Chalcedony reports having seen what he supposed to be the carcass of the original "sea serpent" which has been seen on the coast of Maine for a number of years. It was very calm at the time or Capt. I. would have towed it to Portland.—[*Exchange*.]

Too thin. We don't believe there is a skipper on this coast so ignorant as not to be aware that by freezing to a prize of that nature and bringing it ashore he could make more money than in the pursuit of his legitimate business for ten years.

The rise in real estate at Old Orchard Beach within the last fifteen years has been something remarkable, and the tendency is still upward. Fifteen to twenty years ago Mr. E. C. Staples, the pioneer hotel man at this famous resort, purchased forty acres of land at the beach for something less than \$40 per acre. That portion of this purchase which fronts on the sea wall has now been cut up into lots 100 feet square which readily sell at \$1,000 each. The remainder has been divided into lots 50 feet square which bring from \$300 to \$500 per lot. At Bar Harbor, Mt. Desert, the rise in real estate has been equally noticeable. Twelve to fifteen years ago one could have bought the whole tract of land, extending from where the West End Hotel stands to Schooner Head, a distance of several miles, for a merely nominal sum per acre. Now it has been sold, mostly to New York and Philadelphia parties, for from \$300 to \$1000 per acre. The present owners get fabulous prices for good house lots, and sales are only made to parties in good standing and who wish to build good cottages or first-class public houses.—[*Boston Post*.]

New Companies.

Name of Company.	Location.	Date.	Capital.
Griffin Gold, Silver & Copper Mining Co.,	Portland,	May 15,	\$500,000
Commonwealth Copper & Silver Mining Co.,	Blue Hill,	May 17,	500,000
Britton Silver Mining Co.,	Cherryfield,	May 7,	500,000
Hancock County Silver Mining Co.,	Bangor,	May 19,	500,000
Tucker Woodstock Gold & Silver M. Co.,	Lewiston,	May 25,	500,000

New York Metal Market.

The following were the quotations Tuesday:

Silver Bullion.....	1.15½	Zinc.....	71½
Bar Gold.....	1.00½	Spelter.....	17½@18
Pig Lead.....	4½	L'ke Cop (ing'ts.....	17½@18
Thin (Strait).....	16	Antimony.....	17
Gold.....	1.00½	Bar Silver.....	1.15½

Bar silver was quoted in London to-day at 52 1-2d.

English Metal Market.

From Jas. Lewis & Son's monthly report on ores and metals which has reached us from Liverpool, we learn that there has been a decline of £5 per ton in the price of copper during the month of May, which places the present prices on a level with those at the end of August, 1879, before the advance. The following were the quotations June 1st.

Copper ore.....	11s. 3d. to 11s. 9d. per unit.
Gold.....	77s. 9d. per oz., standard.
Silver.....	52 1-16d. " " "
Lead.....	£14 10s. to £15 per ton.
Antimony.....	£69 to £71 per ton.
Tin (English).....	£76 to £77 per ton.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JUNE 16, 1880.

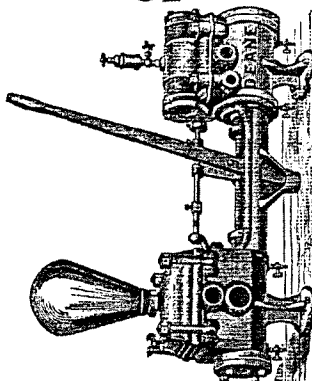
NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
American L. S.....	14½	16	15						14½			
Allouez.....	2½	2½	2½	2½			2½	2½	2½	2½		
Brunswick.....		22		22			16	22	15	20	17	22
Blue Hill Copper.....	3½	4						3½	3½			
Calumet & Hecla.....	221	223	223	225			223	225		221	225	
Catalpa.....	113-16	1½	1½	1½			1½	1½	111-16	1½	1½	
Copper Falls.....	11	12	10	13			10	11	10	11		
Duncan Silver.....	2		1½	2			1½	1½	1½	1	1½	
Franklin.....	12		12				12	12	12	12½		
Harshaw.....	23	24	25½	25½			24½	25½	26	25		
Huron.....	3½		3½	4			3½	4	3½	4		
Mesnard.....												
National.....	1½	2	1½	2			2	1½	2	1½	2	
Oscoda.....							31	33	32			
Pewabic (new st'k).....	15	15½	15½	15½			14		15	16	15½	16
Phoenix.....												
Quincy.....	25½	25½	25½	25½			25	25½	26	26½	26	
Ridge.....	4½	5	4½	4½			4	4½	4½	4½	5	
Silver Islet.....	1½	13½	12				12	13	12	12	14	
Star.....			1½							1½	1½	
Sullivan.....			8½									

Maine Mining Exchange, 28 Congress Street, Boston.

PRICES BID AND ASKED FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JUNE 16, 1880.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Agona.....	1	75					1	75			1	75
Ashley.....		60						60				60
Ammonoosuc.....		80						75				75
Atlantic.....		15						15				15
Boston Acton.....		16						55				55
Bisbee.....		65						70				70
Blue Hill.....		70						100				100
Con. Humpden.....		100						110				110
Cherryfield.....		110						305				30
Darling.....		310						30				60
Deer Isle.....		30						175				150
Douglas.....		30						225				235
Favorite.....		5						20				20
Fort Knox.....		60						150				160
Gouldsborough.....		160						212				25
Grant.....		225						25				75
Harrington.....		150						10				10
Ilwaco.....		212						65				65
Milton.....		30						10				10
Mineral Hill.....		50						75				75
Norombega.....		10						10				10
Owl's Head.....		65						65				65
Petit Menan.....		250						250				250
Portland Acton.....		250						300				300
Robert Emmett.....		400						400				400
Stover Hill.....		400						400				400
Sullivan.....		400						400				400
Twin Lead.....		400						400				400
Waukeag.....		400						400				400
Young Hecla.....		400						400				400

MANUFACTURERS
— OF —
Steam Pumps
— FOR —
EVERY POSSIBLE WORK.



DEANE
STEAM
Pump Co.
HOLYOKE, MASS.

HENRY McLAUGHLIN,
Front Street, - - Bangor,

AGENT FOR

IRGERSOLL ROCK DRILL CO.,
Deane Steam Pump Co.,

Lafin & Rand Powder Co.'s

MAGNETIC BATTERIES,
Wires and Fuses.

Copeland & Bacon's
HOISTING MACHINERY.

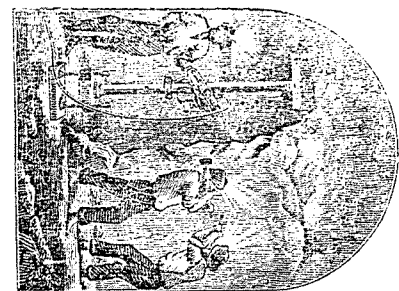
H. W. Johns' Mfg Co.'s

ASBESTOS PAINTS

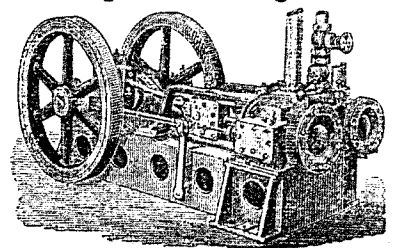
AND ALL KINDS OF

High Explosives,

— AND —

MINING SUPPLIES.

IRGERSOLL
ROCK DRILL CO.,
11-12 Park Place, N. Y.,
Manufacturers of
ROCK DRILLS,
AND INTERED
Air Compressors.



ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Loughton, Bangor; Treasurer, F. Hubbard, Bangor; Secretary, C. F. Bragg, Jr.; Directors, F. M. Loughton, Bangor, F. W. Bragg, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$300,000; 100,000 shares, par value \$3 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7½ Lisbon St., Lewiston.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President and Treasurer, D. H. Bisbee, Camden; Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
JAMES MITCHELL, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Neulley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CONSOLIDATED ACTON SILVER MINING CO.
On the Acton Lode, Acton, Me.
Capital, \$1,200,000; 240,000 Shares. Par value, \$5. Non-assessable.
President, George P. Wescott; Vice President, John Morris; Secretary, Charles D. Clark; Treasurer, A. Bennett. Directors—G. P. Wescott, J. S. Morris, S. L. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Fergusson Haines, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.
The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.
Offices—22 Exchange St., Portland, Me., and 25 Congress St., Boston, Mass.

CLARK SILVER MINING CO., FRANKLIN
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGowan, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPTON SILVER MINING CO.,
Hampten, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Hon. F. M. Loughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
THOMAS CAHILL, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$300,000; Shares \$5 each; Treasury Fund, 12,000 Shares.
President, D. W. Ames, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Daniel W. Ames, Curtis A. Parsons, Willard C. G. Carney, William S. Sampson.
CHAS. W. BRYANT, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DARLING SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Nov., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Wm. H. Darling, Bangor; Treasurer, Stephen G. Downes, Bangor; Secretary, Dr. W. K. Knowles, Bangor; Directors—Wm. H. Darling, Dr. W. K. Knowles, V. Darling, F. H. Clergue, C. H. Hunkins, James Nealey, Jr., Chas. E. Field.
HENRY L. GREGORY, Supt.

DERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphulet Clark, M. D., John S. Morris, James G. Tukey, John A. Palmer, J. A. Strout.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EAST SURRY MINING CO.,
Surry, Me. Incorporated, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, one-fourth.
President, Lewis Friend, Ellsworth; Treasurer, Chas. C. Burrill, Ellsworth; Secretary, Samuel Wasson, East Surry; Directors, Chas. H. Varnham, and George W. Hutchings, East Surry, Naham Hinckley, Surry, Lewis Friend and Calvin G. Peck, Ellsworth.
ISAAC S. GRANT, Supt.

EDGEMOGGIN SILVER MINING COMPANY
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardiner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meagher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Havford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
JAMES MITCHELL, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Bym, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, F. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Lafan, Jeremiah Wooster.

FORT KNOX SILVER MINING CO.,
Prospect, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors, Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.
A. R. FELLOWS, Supt.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.
Office, No. 1 Pemberton Square, Room 4, Boston.
BROWNELL GRANGER, Supt.

GARDNER MOUNTAIN COPPER MINING CO.
Littleton, N. H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 10,000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000. Shares 10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.
President, Judge A. P. Wiswell, Ellsworth. Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000. Shares \$5 each.
President, Dr. Alex. Fulton. Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.
President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. I. Huxford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Ham, Jackson; John H. Gordon, M. Chase, J. I. Watts, I. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.
Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.
Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.
Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Dutton, Blue Hill; J. S. Condon, Orland.
TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice President, John S. Jenness, Bangor; Acting Treas., Wm. E. Brown, Bangor; Sec'y, Wm. E. Brown, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
GEO. D. HOLT, Supt.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.
Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Sweet, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY.
Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 shares.
President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Avey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Alwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.

McFARLAND SILVER MINING COMPANY,
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.
Capital, \$500,000; Shares \$5 each.
President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.
F. W. CROSBY, Supt.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.
President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAR, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.
Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.
Capital, \$500,000. Shares, \$5.00 each.
President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.
C. E. LANE, Brooks; Supt.

PETIT MENAN SILVER MINING COMPANY,
Perit Menan Point, Steuben, Me. Incorporated, Aug., 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treasurer, L. R. Wyman, Ellsworth; Secretary, J. E. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

PENOBSCOT MINING COMPANY,
Penobscot, Hancock County, Me. Incorporated, January, 1880.
Capital, \$500,000; Shares \$5 each, unassessable; Treasury Fund, 25,000 Shares.
Office, No. 43 Milk Street, Boston; Rooms F and G, 3d floor.
President, L. Foster Morse, Boston; Secretary, Samuel Annear, Blue Hill; Treasurer, Jno. H. Faxon, Jr., Boston; Directors—L. Foster Morse, Boston; Samuel Annear, Blue Hill, Me.; Geo. G. Barker, Salem, Mass.; Thomas H. Guernsey, Boston; Joshua S. Dunclee, Boston.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndner Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp., July, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thaxter, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.
WILKIE DARLING, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.
E. J. SWAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughron, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROURKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, B. P. Tilden, Sullivan; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.
SIMON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN-LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President— — — — —, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors— — — — —, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.
President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.
Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me. Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, 32,000 Shares.
President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-President, Charles Hamilton, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamilton, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

WM. O. CROSBY, S. B.,
GEOLOGIST,
Boston Society of Natural History,
BOSTON, MASS.

Mining properties examined and reported on. Gold,
Silver and Copper Mines a specialty.
References—Dr. T. Sterry Hunt, Montreal, Canada;
Prof. Wm B. Rogers, Boston, Mass.
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VAN, ME.

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cataquis Railroad.

Quality and natural advantages unsurpassed
Dumpage and drainage unequalled. Railroad trans-
portation adjoining. Stock for sale. Sections leased
on favorable terms. Capitalists invited to inspect.
A. C. HAMLIN, President, Bangor.

A Letter to W. F. Stewart, Esq.

BANGOR, June 14, 1880.

Hon. W. F. Stewart:

DEAR SIR—Those of us who had the pleasure of
listening to your lectures on "Mines and Mining Philo-
sophically considered" some time ago, and many who
were not fortunate enough to hear them, are anxious
that you should favor the people of Bangor and vicinity
with another lecture; and as during several months
past your observation and experience have been ap-
plied to a thorough examination of the mines of
Maine, we should be additionally gratified if you would
further enrich your lecture with information regarding
these local industries in which our people have be-
come so largely interested.

If our desire meets with your approval, will you
kindly name time and place at which you will gratify
it.

Very Respectfully,

Charles Hamlin, F M Loughton,
Wm L Johnson, F W Hill,
E M Hersey, John R Mason,
A C Hamlin, Jacob Stern,
A E Barclay, F H Clergue,
S Jones, E C Nichols,
A Wilson, P H Williams,
Jas E Hill, S P Johnson,
W O Arnold, Chas Hight,
Maine Mining Journal, F O Beal,
Wm Franklin Seaver, C F Briggs,
Wm E Brown, Thomas White,
H B Williams, C H Hucks,
H M Prentiss, G Stanford,
Cyrus Emery, R W Kimball,
I S Emery, Chas D Stanford,
A R Hopkins, A Bayford,
S R Prentiss, P H Strickland,
B B Thatcher, P A Strickland,
Wm H Strickland, Geo L Jeffers,
J P Pearson, J S Ricker,
J P Tucker, Geo W Knight,
James Adams.

REPLY.

BANGOR, June 16, 1880.

Messrs. Hamlin, Stern, Loughton, Mason and
others:

GENTLEMEN—The hackneyed method of acknowl-
edging compliments will not serve in this instance. As
I have been for many months past in the service of
your people, it is now my simple duty to give them the
results of my observations. This I will cheerfully and
freely do next Friday evening, June 18th, at Music
Hall, at eight o'clock.

June 16 17 18

W. F. STEWART.

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ESTABLISHMENT,
offers special facilities for the prompt and satis-
factory execution of all kinds of

Job Printing for Mining Companies.

Having always in type Forms for By-Laws, and
most of the usual Blanks desired by these corpora-
tions, we are enabled to execute all this kind of
work in the promptest manner, and at prices low-
er than the same can be afforded at any other es-
tablishment.

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Nos. 15 & 17 Central St., Bangor, Me.

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and patrons, that he has fitted up the NEW
STORE, at

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(Under Globe Hotel.)

formerly occupied by Frank P. Wood, and has re-
moved hither.

My stock is NEW, and with the additions which
I am constantly receiving, my assortment is large
and I am able to give a better trade than any
other man in the city.

**Watches,
Clocks,
Jewelry.**

New Store, Under Globe Hotel.

B. S. Kalish,

Formerly at No. 76 Main Street.

All work warranted and goods guaranteed to be
as represented. m28

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Where and How to Find Them.

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Bangor, Me.

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notice.

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AGENTS,

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CAPT. S. H. BARBOUR,

Leaves Bangor for Bar Harbor
every WEDNESDAY and SAT-
URDAY at 8 A. M., touching at
Hampden; Winterport, 9.15
Bucksport, 9.45; Fort Point, 10.45
Castine, 11.30; Islesboro, 12.30 P. M.; Deer Isle, 2
P. M.; S. W. Harbor, 4.00; Bar Harbor, 5.30 P. M.
Returning, leaves Bar Harbor every MONDAY
and THURSDAY at 6.30 A. M., touching S. W.
Harbor at 8.00; Deer Isle at 10.30; Castine at 12 M.
connecting with steamer May Queen for Belfast.
Fort Point at 1.00 P. M.; Bucksport at 2.00, arriv-
ing in Bangor at 4.00 P. M.
Meals served on board.

Bangor and Bluehill.

TWO TRIPS PER WEEK !!

Steamer May Field.

CAPT. WM. BARBOUR,

Leaves Bangor TUESDAYS and THURSDAYS
at 8 A. M.; Winterport at 9.30; Bucksport at 10;
arriving at Bluehill at 4.30. Fare \$1.50. Sure con-
nections at Castine for Islesboro and Belfast.

Returning, leaves Bluehill every WEDNESDAY
and FRIDAY at 7.30 A. M., for Bangor, touching
at Sedgwick, Deer Isle, Castine, Fort Point, Sandy
Point, Bucksport, Winterport and Hampden.

FRANK D. PULLEN, Agent.

Bangor, June 1.

Bucksport & Bangor Railroad



CHANGE OF TIME, MAY. 3d, 1880.

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.55	1.30 7.20
Arrive in Bucksport,	9.45	2.45 8.30

Direct connection is made with the two through
trains on Maine Central via E. & N. A. Railway;
also with Bangor & Piscataquis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arriva
of morning train from Bangor, reaching Blue Hill
at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection
east, leave Bucksport 1.00 P. M.

apr30

L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this
line will leave India Wharf, Boston, and Franklin
Wharf, Portland, every evening (Sundays except-
ed) at 7 o'clock.

CONNECTIONS are made at Portland with
GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE
CENTRAL KNOX & LINCOLN Railroads, and with
Steamers of the BANGOR & MACHIAS LINE; and at
Boston with all lines for points South and West.

Tourists will find this one of the finest OCEAN
TRIPS on the New England coast.

WM. WEEKS, J. B. COYLE, JR.,
Agent, Boston. Gen. Ag't, Portland

BANGOR AND ELLSWORTH STAGE LINE.

Stages leave Bangor for Ellsworth at 8 o'clock
A. M. and 8 P. M., or on arrival of Western trains
from Portland and Boston, connecting at Ells-
worth with stages for Bar Harbor, Sullivan and
surrounding towns. Good covered coaches run
over this line between Bangor and Ellsworth.
Extra teams furnished at all times, at reasonable
rates, at their stables in Bangor and Ellsworth.

JOHN M. HALE & CO.

BUCKSPORT AND BLUE HILL STAGE LINE.

The stage leaves Bucksport daily, Sundays ex-
cepted, at 1 P. M. for Blue Hill and Sedgwick.

Returning, leaves Blue Hill, daily, Sundays ex-
cepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to
Blue Hill, and by the Blue Hill driver through to
Bangor.

A. P. CURRIER & CO., Proprietors.

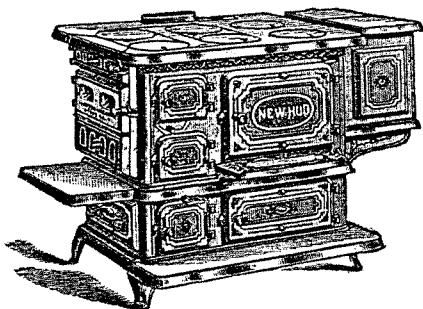
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Porter Nealey, Bangor, Me.
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N. G. Fessenden, Portland, Me.
Geo. H. Marquis, Portland, Me.
Wm. P. Morris, Portland, Me.
Harry B. Parker, Blue Hill, Me.
John A. Hale, Ellsworth, Me.
J. M. Fernald, Lewiston, Me.
James Nichols & Co., Calais, Me.
J. Frank Pierce, Augusta, Me.
John S. Caldwell, Belfast, Me.
Maine Mining Exchange, Boston, Mass.
Nichols, Williams & Co., Boston, Mass.
A. K. Loring, Boston.
Geo. H. Flagg, Skowhegan.
H. M. Burnham, Oldtown.
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ALL THE NEW STYLES SUMMER, STRAP and BUTTON SHOES,
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april 15

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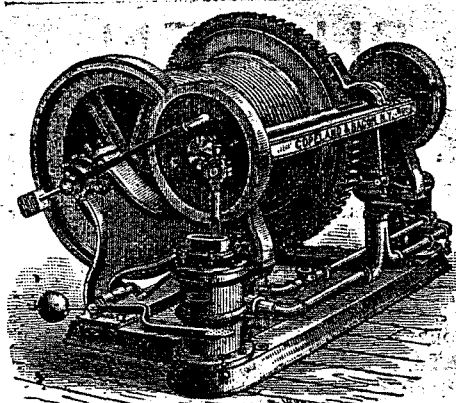
A Financial, Railway and Mining Journal.

Boston. PUBLISHED WEEKLY. New York.
\$3.00 a Year; 10 Cents a Copy.

THE ECONOMIST is devoted exclusively to the Fi-
nancial, Railway and Mining interests of the United
States. It is the representative journal of
its class in New England, and has, by its
conservative and independent policy, established a rep-
utation and circulation which gives it a commanding
influence in its section. It aims to advance and protect
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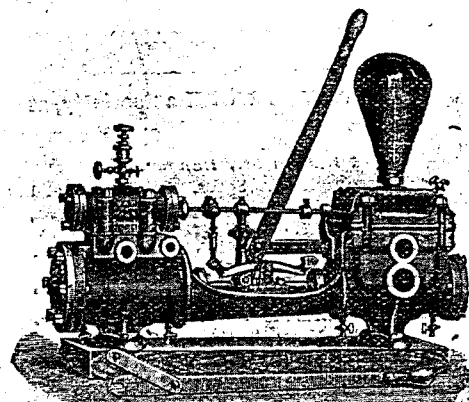
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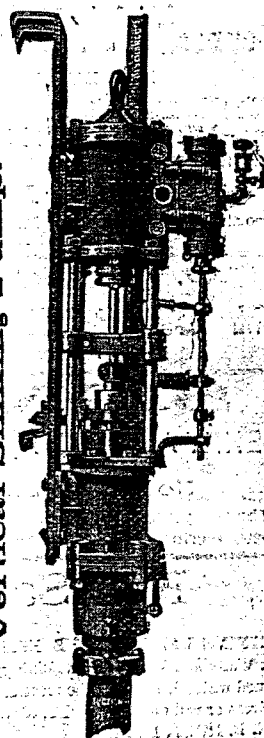
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BANGOR, MAINE, JUNE 25, 1880.

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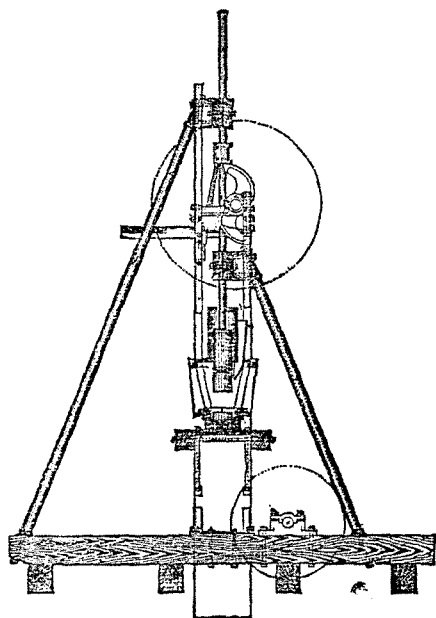
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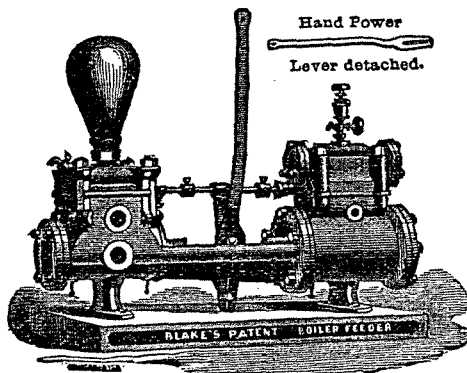
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Bangor, June 1.

Bucksport & Bangor Railroad



CHANGE OF TIME, MAY. 3d, 1880.

	A. M.	P. M.
Leave Bucksport	5.30 10.30	4.45
Arrive in Bangor,	6.45 11.45	6.00
Leave Bangor,	7.35	1.30 7.20
Arrive in Bucksport,	8.45	2.45 8.30

Direct connection is made with the two through trains on Maine Central via E. & N. A. Railway; also with Bangor & Pls cataquis Railroad.

STAGE CONNECTIONS.

Stages leave Bucksport for Blue Hill on arrival of morning train from Bangor, reaching Blue Hill at noon. Stage and railroad ticket, \$1.50.

Stages for Castine, Ellsworth and connection east, leave Bucksport 1.00 P. M.

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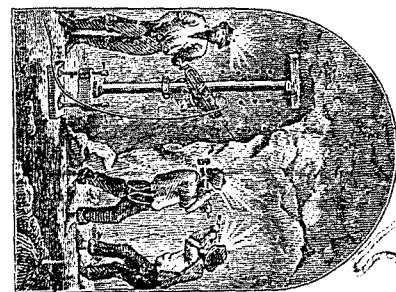
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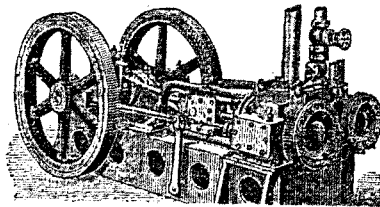
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, }
W. F. BLANDING, } EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is especially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JUNE 25, 1880.

MAINE AS A SUMMER RESORT.

The advantages which Maine possesses as a place of resort for tourists and pleasure seekers during the heated months of summer are great and each succeeding season they are more indelibly impressed on the memory of that large class of people who desert their homes in the crowded cities and seek recreation and rest during the summer days in cooler lands and among new scenes.

During the past few years there has been a large influx of summer travel to our State. Each summer a larger amount of travel than the preceding is noticed and the indications are that the present year will witness a livelier season in this respect than has ever been recorded in our past. Grand preparations are being made for the accommodation of travellers than ever before and we are confident that the expectations of these enterprising men will be realized.

The coast of Maine with its rocky and precipitous shores, its numerous fiords and inlets and its myriads of islands abounds in grand scenery. The lover of the grand and beautiful in nature can find no more inspiring scenes than are presented along the coast of Eastern Maine. Frenchman's Bay is one of the most beautiful sheets of water in the wide world and the scenery in its vicinity can hardly be surpassed on the American continent. To the southwest is Mt. Desert with her mountain peaks towering up in superb grandeur and the beautiful village of Bar Harbor nestling at their base. Above the placid waters of the bay the famous Porcupines show their heads, to the northward is Hancock Point, to the east is Gouldsboro and to the north of east Sullivan river and the village of Sullivan are seen in the distance, while still farther away, upon the dim and misty horizon the Schoodic range of mountains loom up into view and form a fitting background to the picture. This is but a hasty description of one of the many beautiful scenes presented in our borders. Bar Harbor is the central resort of summer travellers to that section and

during the summer that city by the sea is a lively place. During the past few months seventy-five new buildings have been erected and the accommodations for guests are far in excess of previous seasons, yet reports are to the effect that most of the rooms are engaged ahead and there can be no question but what Bar Harbor will boom in earnest.

There are along our shores myriads of resorts where spacious hotels keep visitors during summer and where everything is inviting and attractive. Old Orchard Beach is a resort of great favor and the immense hotels there accommodate vast throngs. New houses have been recently constructed and a railroad to run several miles along the beach is about completed. This splendid beach has no superior on the Atlantic coast. The attractions of Maine are varied and interesting. Her seaside attractions, fascinating as they are, are almost surpassed by the inland views. Mountains, lakes and streams diversify our territory. Moose Head and Rangle Lakes are famous resorts and have their full quota of visitors.

Our mines of gold, silver and copper will attract visitors and many will be thus drawn to Maine this summer who otherwise might wander in other directions. Nearly all of the summer visitors to Maine will be sure to visit the mining districts and with their own eyes they will see convincing evidence that we have mines of promise.

The importance of the summer travel in Maine is not fully appreciated. It brings to the State large sums of money and it will aid materially in calling the attention of the great public to our valuable mineral and other resources.

[From the New York Daily Mining News.]

Mining in Maine.

The mining interest of Maine has grown up from surroundings of the densest doubt and credulity. For something like two years the activity in precious metal mining in Maine has been increasing. The report of the discovery of ore bodies in that State was first regarded as a hoax. It was a long time before any proposition could obtain a hearing even in Boston, and now, after the accumulation of evidence in favor of the mines, New Yorkers have scarcely begun to entertain the notion that there can be profitable silver mines in Maine.

We do not think that the time has come when anybody can speak authoritatively and positively in regard to the future of the many mining enterprises now on foot in that State, but one thing is certain and settled beyond all question, that the developments are so full of promise and all the indications are so strongly in favor of the mines that the promoters have a good claim upon attention and have a right to come before the public asking for money to make further developments. We do not suppose this conservative statement of the case will be altogether satisfactory to our mining friends in Maine, but it is all that we can say with the information now before us, and we will be very glad to make our endorsement stronger as soon as the facts will permit. We have a great deal of confidence in these Maine silver mines. We think the conclusion is almost irresistible that they will be profitable, but the parties now interested must reconcile themselves to the situation and prepare to conduct their work to a perfect demonstration before they

can expect the recognition which they perhaps think they are now entitled to.

The Maine mines have been tested by a good many mining experts, scientists and practical miners, and we have never heard any expression of distrust from the parties who have had the inspections. We have talked with many men who have invested largely in these mines, and they seem to have no doubt that their investments will turn out profitably. The letter we publish to-day from our own correspondent, who is now at Bangor, includes interviews with a number of prominent citizens of Bangor, and also gives a very intelligent idea of the situation and the state of feeling there. Our principal object in writing now is to warn the managers of these mines that it is their duty to continue developments as economically as possible, and show up their properties. It is development that tells. A shaft 100 feet deep is scarcely ever enough to make a mine. No matter what showing it makes, it does not prove much excepting that it may justify further work.

We urge upon our Maine friends this point—to continue their work patiently, quietly and economically. They have every reason to hope for the best results, but the mines of the West are now offering so many attractions and there are so many mining properties on the market in comparison with the capital that is readily accessible for the purpose, that the Maine mines will probably be called upon to stand severer tests than the Western mines, but this will only be all the better for them in the end. Many a district in the West has been ruined by premature booms. Many a district in the West will be ruined within the next year from the same cause. The last thing Maine should pray for is a mining boom. The one thing they should insist upon is a continuance of work in their mines—underground work, not work on the stock market.

The force of these remarks will scarcely be modified even should the Sullivan mill, now about to start, accomplish all that has been expected of it. The company that puts in the most development work on its mine before appealing to the public will have smoother sailing, and will make the most money.

The advice of the *Daily Mining News* to the miners of Maine is good advice for all miners: Be patient and work your mine.

Personals.

MR. E. B. SMITH, of the Tapley, has started for New York on a business trip.

MR. R. A. VARDEN, of Portland, recently visited the Snow mine in Bucksport.

GEO. B. BROWN, Esq., President of the Sullivan, recently visited the mines of that district.

At latest dates Bonanza King FLOOD and PRINCE GRANT, Jr., were clam-baking in Rhode Island.

PROF. F. L. BARTLETT passed through Bangor on Monday last on his way to Calais to examine mining properties.

JAMES A. GARFIELD, the Republican candidate for President, is a stockholder in the Chrysolite Mining Company.

PROF. W. F. STEWART left for Blue Hill and Penobscot

on Thursday and will not start for New York for several days yet.

MR. E. J. SWAN, of Franklin, made the MINING JOURNAL a call on his way to the State Republican Convention at Augusta.

STEPHEN JENNINGS, Treasurer of the Douglass Copper Mining Company, has gone to Cincinnati as a delegate to the National Democratic Convention.

MR. R. S. LAWRENCE, the mining editor of the Boston *Daily Advertiser*, has been on a visit to the mining regions of eastern Maine during the past few days.

REGINALD BOND is the name of an aristocratic Boston banker. He writes his name Reg. Bond "for short," and irreverent persons call him Registered Bond—but not to his face.

HON. S. L. MILLIKEN, Secretary of the Bisbee Copper Mining and Smelting Company, has been nominated for Representative to Congress by the Republicans of the Fifth Congressional District of Maine.

MR. J. H. HAVERLY has arrived home from his prolonged visit among the mining regions of the West, where he has interests. He came in like a veteran miner, wearing a blue flannel shirt, and much sunburned. He is glad to get back into civilization.—[*Daily Mining News*.]

JAY GOULD has bought a fine summer residence at Tarrytown on the Hudson, giving \$225,000 for "Lyndhurst," on whose 200 acres and fine marble palace the late George Merritt spent half a million dollars. It is the finest establishment ever occupied by a Wall-street magnate, even surpassing Le Grande Lockwood's magnificent country seat at Norwalk, Ct.

We received a call the present week from MR. C. E. LANE of Brooks who during the past year has done a large amount of prospecting in Hancock, Waldo and Penobscot counties. He reports having discovered many promising mineral veins and quite a number which are now being developed are showing finely. He also thinks that the town of Exeter in this county will shortly come to the front as a mining locality, and has left at our office some handsome specimens of silver-bearing galena from the property of the Exeter Mining Co.

Dips, Spurs and Angles.

The skillful watchmaker is the man for the hour.

A rheumatic miner says a wet mine is a damp, poor place to work in.

At this time in the National Treasury at Washington there are 500 tons of silver dollars.

A paper speaks of a man who "died without the aid of a physician." Such instances are very rare.

Selling cigars at a hotel on Sunday has been decided by the Supreme Court of Indiana to be a "work of necessity."

I thank the Lord that there is one thing in this world that money can't buy, and that is the wag of a dog's tail.—[*Billings*.]

It was Pelham who said that it was eminently respectable to be arrested for debt; because it shows that you once had credit.

Croesus was only worth a paltry \$10,000,000 and we suggest that the old simile be changed to, "Rich as a paper mill owner."

The dental authorities estimate that the 12,000 dentists in this country are every year packing into the teeth of the people not less than half a ton of pure gold, costing half a million dollars.

Hope is a prodigal young heir and experience is his banker, but his drafts are seldom honored, since there is often a heavy balance against him because he draws largely on a small capital and is not yet in possession.

The Czar is the only crowned widower and Victoria the only crowned widow among the European potentates. Alfonso and Christine, of Spain, are the youngest wedded couple; William and Augusta of Germany, the eldest.

Six hundred barrels of whiskey were lost by the sinking of the steamer *Arabian* in the Missouri river 22 years ago. All attempts to raise it failed; but now the course of the river has changed, and the whiskey, which lies 40 feet under the sand, is to be dug for.

In Tucson, Arizona, the thermometer is 108 degrees in the shade every day. Tucsonians regard this temperature as heavenly. They do not complain until the mercury reaches an altitude of 140 degrees, and then only because the suggestions conveyed are unpleasant.

The bears in the coal shares had a story in the stock market yesterday that a new kind of army worm had appeared in the coal regions, and with steel pointed noses were extracting all of the oil and gases from the coal, which was thus knocked into coke!—[*Wall St. Daily News*.

The *Gunnison News*, the first newspaper published in Gunnison Valley, Colorado's new mining attraction, had its first copy struck off and sold to the highest bidder, F. G. Kubler, Mayor of the town, whose \$50 is to be turned over to the first church or charitable institution built at Gunnison.

"Moses was the first miner on record. He climbed the mountain and viewed the landscape ore."—[*Exchange*. Yes, he then came down, roasted and crushed the bonanza developed by Aaron, panned it out, and after the manner of mining operators of the present day, kept the sulphurets and gave the slums to the people.—[*Carson Valley News*.

At Reno on Sunday evening Ben Butler, who was stretching his legs on the depot platform, saw some bars of Comstock bullion in the express car, and walking up looked cautiously at the great white bricks, and remarked to the messenger: "So that's silver, is it?" "Yes, General." "Where is it going?" "Down to 'Frisco, to be made into spoons." Hasty retreat of B. B.—[*Virginia Chronicle*.

A Leadville man took his first trip to Rockaway last Sunday, and during the best part of the journey he had his head over the railing intently gazing into the water. The compassionate captain asked him how he felt: "Miserable, miserable! I'm sick, captain, I'm sick. I have paid tribute to Neptune until I have lost everything." "But," said the captain, "I see you still have your boots left." "Yes," said he, "but they were on the outside."

The Scotchman and the mineralogist: "Yon man gave me his bag to carry by a short cut across the hills to his inn, while he took the other road. Eh! it was dreadfully heavy, and, when I got out of his sight I determined to see what was in it, for I wondered at the uncommon weight of the thing; and man, its no use for you to guess what was in that bag, for you'd ne'er find out. It was stones." "And did you carry it?" "Carry it? Man, do you think I was as mad as himself? Nae! Nae! I emptied them all out, but I filled the bag again from the pile near the house, and I gave him good measure for his money."

A Nevada daily says: "Ed. Niles, of the *Carson Times*, was in town yesterday. He will shortly enlarge and come out as an evening paper." It will be very interesting when Mr. Niles spreads himself out to thirty-two column size, gets a new Roman head, and walks down town every evening with double-leaded editorials on his shirt-front, church notices, printed in minion, on the knees of his trousers, patent medicine advertisements displayed on his enlarged stomach, and political Associated Press dispatches on his coat-tails. The idea is novel, and Mr. Niles will undoubtedly have a large circulation, limited only by his pedestrian abilities.

An English gentleman at the Effizi gallery was admiring the ancient bronzes representing some of the finest specimens of Etruscan art when he was accosted thus by an Anglo-Saxon: "What's this, mister?" and as he spoke he rang a statue of Mercury with his horny knuckles. "That's Mercury." The ruralist gazed for a moment at the bronze representation of the messenger of the gods, and then beckoned to a companion at the other end of the cabinet, to whom he said: "Jim, what do you suppose that ere figure is?" "I dunno," responded Jim, in turn giving it a resounding rap; "bronze, hain't it?" "No," said the other, "t'ain't; its quicksilver." "Who-at! the stuff they put in the thermometers? Wo-al, I am durned. What'll they do next?" And after another long look, the couple moved on, deeply impressed with the wonders of art.

Hon. W. Frank Stewart.

The Hon. W. Frank Stewart having announced that he should be obliged to absent himself from our State for a few months, a large number of the leading mining and business men of Bangor invited him to deliver previous to his departure a lecture upon the mines of Maine. The Professor kindly accepted the invitation and on Friday evening of last week a representative audience, embracing our prominent citizens and their ladies, gathered at Music Hall to listen to what might fall from the lips of the veteran geologist and expert. Previous to the lecture, Messrs. M. H. Andrews and W. O. Arnold delighted the large assemblage with exquisite music on violin and piano.

In opening, the Professor said that mining had been carried on in a rude sort of way in Europe, Asia, North America and South America by races now extinct. The improvements of recent times have placed it among the foremost of human industries. Mining rationally managed and properly understood is one of the most lucrative professions in the world. Long before geology was known, mining was carried on. The forte of geology is to point out the possibility of a mine proving permanent. All the rocks of the globe are not suited to mining purposes. The best fracturing rocks are the sedimentary. Luckily for the State of Maine the most of its rocks are of this kind. The whole southeastern portion of the State is buried beneath beds of these sedimentary rocks. In the West the veins are torn, wrinkled and distorted by volcanic action. I have seen in your State, especially in your immediate vicinity at Hampden, veins that are readily traceable for miles, and over Hancock, Penobscot and York counties the veins are but little distorted. I will tell you what in my judgment you ought to do. It is nearly always the result when new discoveries are made that men become unduly excited. The upshot is that it results in a mining furor and this is usually followed by distress. What you want to do is to club together. You may get the opinion of experts but it requires work to develop the mines. The crisis which has swept throughout the entire country has struck Maine at just the wrong time. A vast number of properties in the State are heavily charged with minerals. My advice to many who have not the means to develop the same would be to delay work for the time and the developments made in the older mines will be a prospecting of your own claims. If it will be any encouragement I can say

that there are at least twenty mines in the State that will be developed, as there are that number of companies so supplied with treasury funds as to work through any number of months depression. I have assured you that you have the best formed mines in the world. Maine needs this great industry. The advantages offered for mining in this section are far superior to those offered in the West. This can be made one of the grandest mining countries in the world. Your people are anxious to get returns in a hurry. You cannot trust upon the stock market for that is uncertain. I should like to see more interest. You have gold, silver, antimony and tin, inexhaustible beds of copper, lead in connection with silver, zinc enough to supply the world and sulphuret of iron in quantities capable of furnishing all the salts and acids required in commerce. I do not see why Maine should hesitate. Hancock county is one vast sheet of metal. One can hardly pass through a sheep pasture without finding ore cropping out. I have been pleasantly treated since in your State. I came to stop only three days but have remained until now. I like the people of your city and State and although called from Maine for a few months will return to you in the fall.

On Monday evening, a complimentary dinner was tendered the Professor at the Penobscot Exchange. The spacious dining hall of this popular hostelry was brilliantly lighted and the tables laden with rich viands and decorated with flowers were very inviting. After a pleasant reception in the parlors the party embracing about forty of our well known mining men seated themselves at the festive board. The menu was very elaborate and embraced a great number of excellent courses.

After ample justice had been done the repast, Dr. A. C. Hamlin, of the Douglass, gave an address of much interest, alluding to the importance of mining and the bright prospects of great industry in our State. The address abounded in statistics and facts of general interest and want of space alone forbids us from reporting the above in detail.

Hon. F. M. Laughton, of the Atlantic, in a happy speech referred to the stay of their distinguished guest in this city and State, alluding to the great advancement in our mining interests while he has been with us and expressing the hope that when in the fall he returned it would be to behold the fulfillment of his prophecies. As a token of the high esteem in which his valuable services are held by the citizens of Bangor Mr. Laughton presented him with an elegant gold headed cane.

The Professor responded very feelingly for the courtesies extended him. He had been the recipient of honors in the past but the memory of this gathering would be cherished more highly than all. The eight months passed in this vicinity had been especially pleasant and his associations with the gentlemen of the city of Bangor will ever be remembered. Unless some wretch purloins this cane, it will be the prop of his declining years. The Professor alluded eloquently to the elements we have to build up a thriving mining commonwealth. The tide of emigration should be turned to the State of Maine. The State is teeming with mineral wealth and it but requires development to astonish the world with the bullion output. The Professor concluded by saying that he should only absent himself from our midst for a few months and in the early autumn would return and behold what changes had been wrought and doubted not but in New York where he would make his headquarters during the summer months he might be able to do more good for the mining interests of the State by removing doubts and overcoming scepticism in that great mining State than by passing the time in this vicinity.

Various toasts were responded to. Upon calls for the press remarks were made by E. M. Blanding of the MINING JOURNAL, Deshler Welch of the *N. Y. Daily Mining News* and E. P. Boutelle of the *Daily Whig*. Short speeches followed by E. M. Hersey of the Twin-Lead, John S. Jenness of the Young Hecla, F. O. Beal of the Revere, E. C. Nichols of the Oshkosh, I.

S. Emery of the Maine Mining Exchange, John R. Mason, Thomas Cahill, Geo. D. Holt, G. S. Bean, J. W. Milliken, F. H. Williams, C. H. Hammatt, C. F. Bragg, F. W. Cram, Thos. White, Jacob Stern, W. E. Brown, Geo. W. Knight, Dr. W. K. Knowles, A. E. Barclay, F. W. Hill, C. E. Hill, Ezra L. Sterns, Charles Stanford, A. H. Thaxter and O. M. Young.

The following resolution was read and adopted:

Resolved, That we, representatives of the mining interest in Bangor, hereby tender our heartfelt thanks to Hon. W. F. Stewart for the many favors he has extended to us during his sojourn among us; that we wish him a full measure of success during his temporary absence and promise him a hearty welcome upon his return.

A vote of thanks was then extended to Messrs. Smith & Thayer of the Penobscot Exchange for the bountiful repast prepared.

Graphite.

What has every appearance of being a valuable deposit of this mineral, commonly called plumbago, has recently been discovered in the town of Phillips, near the Madrid line, and about 100 rods distant from Sandy River, on land owned by Mr. Isaiah Chick. Several gentlemen of this city have become interested in the property who will at once proceed to develop it. A prospecting shaft has already been sunk to a depth of about 18 feet and 15 to 20 tons of ore have been taken out. The opening made shows a vein at least six feet in width with a well-defined north wall and the south wall not yet exposed. The vein runs in a northeasterly and southwesterly direction and has been traced a long distance. The quality of the ore improves rapidly as depth is reached. A crew of men are now at work under the direction of Mr. Chick who will furnish any desired information. The locality of the mine is a very favorable one, being situated upon the side of the mountain where the facilities for dumpage and drainage are perfect, and the ore may be run down the slope in cars, to the river where is an extensive water privilege, and as several mills of various kinds are at present in operation here, it would be but a trifling matter to put in apparatus for crushing and grinding the ore with power furnished by belts from the machinery already on the ground. After the ore is ready for the market it is within six miles—by a good carriage road—to the railroad. It will thus be seen that the ore can be mined and prepared for shipment at a comparatively small expense, and it only depends upon the quality and quantity of the ore to ensure a valuable and remunerative mine. The showing which has been made indicates an extensive and perhaps inexhaustible deposit, and with regard to its quality the following letter from a well known metallurgist and also the certificates given below will speak for themselves:

BOSTON, Feb. 12, 1880.

Mr. Isaiah Chick, Madrid, Me.:

DEAR SIR—Mr. Leonard has placed in my hands a sample of plumbago (graphite) from your property. I have examined it carefully and think very favorably of the mineral. It is very nearly up to a quality that I am purchasing for English parties and should the quantity and quality you have be equal to my standard I could dispose of all you can procure, at prices that would pay for mining. The market is now better than it ever was for such ores.

J. CULLEN AYER.

BANGOR, Me., Feb. 5, 1880.

Mr. Isaiah Chick, Madrid Me.:

DEAR SIR—We have tested the plumbago from your mine, for foundry facings and find it superior to any we have ever had in our works for smooth surface.

W. T. JORDAN, { Foreman of Wood, Bishop & Co.'s Foundry.

JOHN MORRILL, { Foreman of Bangor Foundry & Machine Co.

Copper Mining in New Foundland.

The *Montreal Gazette* of a recent date contains the following interesting description of some of the copper mines of New Foundland:

Bett's Cove copper mine was opened in 1874, under the man-

agement of Mr. Ellershausen; it yielded in the first four years, 102,400 tons of ore, the value of which was £512,000. The price of copper ore fell to a very low figure toward the close of year 1878, and a new mine was opened by the Bett's Cove Company at Little Bay, where ore could be extracted at a very moderate expense. Mining operations at Bett's Cove have been since carried on upon a comparatively moderate scale. A staff of 150 or 200 miners was still kept at work, and with remunerative results. Some of the pillars of ore left for the support of the roof along the various galleries were latterly removed, as their contents were of great value. When nearly the whole of these pillars were removed, in one particular portion of the workings, on Wednesday, May 5th, just before dusk, those on the surface noticed some alarming symptoms: the ground began to shake, stones rolled down from the cliff and plunged into the lake below. In a few seconds, with an awful crash, the whole top of Bett's Cove Hill fell in, leaving a yawning chasm more than 100 feet deep, where before was solid rock. As the catastrophe had been foreseen, no one was in the workings beneath, all the miners then under ground being in a safe portion of the mine. The machinery which had formerly stood on the portion of the surface which sank had all been removed. Great masses of valuable ore were exposed and rendered accessible, which could only have been reached by great expenditure of time and money. Operations will now be resumed on a larger scale, and a very considerable shipment of ore from Bett's Cove, during the summer, is anticipated.

Little Bay Mine was opened in August, 1878, and the anticipations regarding its productiveness have been more than realized. Since the shipping season closed, in December, 1879, about 650 men have been employed, and these have brought to the surface during the winter, close on to 12,000 tons of good ore, which is now ready for shipment. The first cargo of 200 tons was dispatched three days ago. A considerable increase of the working force has been made; and now that the fine weather has opened, operations will be greatly facilitated. It would be safe to predict that ere the shipping season closes, 15,000 or more probably 20,000 tons of ore additional, will be extracted, making a total for the year of over 30,000 tons. As the workings deepen, the ore improves in quality and the extent of the deposit seems even greater than was at first supposed. The Robert's Arm Mine, worked by Mr. Ellershausen on his own account, is also very promising, and extensive works have been erected there. The new mine at Seal Bay, owned by Messrs. Browning and Son and others of St. John's, and leased by them to a wealthy English company on a royalty, promises to equal any of its predecessors. The preliminary operations carried on during the winter are now completed. Various other mining locations are awaiting their turn for examination. Since the first discovery of copper here in 1864, sixteen mines have been opened. Of these, two have been abandoned, five have suspended working from a variety of causes, one is but partially worked, and eight are now in full operation.

Mr. Howley, assistant geologist, estimates the total area of the serpentine formation in the island at 5000 square miles. In his Geological Report for 1875, after a survey of the mining region, Mr. Murray says: "I feel bound to state that the experience of the late investigation convinces me, more than ever, that many of the northern parts of this island, and the great bay of Notre Dame in particular, are destined to develop into great mining centres, should capital and skilled labor be brought to bear in this direction." It must also be borne in mind that copper is not the only mineral found in this island. Lead has been discovered at various places, especially along the western coast; the equivalents of the auriferous rocks of Nova Scotia are found here, although gold has not yet been discovered; while in the carboniferous region of Bay St. George and Grand Lake, coal-beds of greater or less extent are known to exist. Borings were made last summer in the neighborhood of Grand Lake, and with such encouraging results that the government has ordered them to be resumed this year. Thus the prospects of an extensive mining industry in Newfoundland are of a very encouraging character. The progress of copper mining around Notre Dame Bay is steady. Tilt Cove mine, the workings of which have been suspended from year to year, owing to a misunderstanding between the owners, Messrs. Bennett & McKay, is to be sold next month, by order of the Court of Equity. There are immense deposits of ore there, and should it be purchased by an enterprising individual or company, it is likely we shall hear of extensive operations, requiring a large number of workmen.

The Poetry of Mining.

The Chicago *Mining Review* thinks that, notwithstanding the depression in mining stocks, there is no depression in mining, and that "mining to-day stands like a young

Amazon, with the warm, free current of life-blood pulsing and thrilling in every vein—health, vigor and strength pictured in every movement—power and life mirrored in every glance—a strong virgin queen, pure as the snow of her mountain peaks, who will crown her worthy subjects with tokens of rich rewards."

The mines are very solid, but they are not so all-fired poetical as the *Mining Review* pictures them. The idea of a stope in \$40 chloride being a young Amazon with the warm free-current of life-blood coursing in every vein is pretty, but very far from the facts in the case.—[*Stock Report*.]

A Good Field for a Preacher.

[From the Esmeralda (Nev.) Herald.]

Week before last we noted the fact that Aurora had no local preacher, and that our people were in need of some sort of saving grace. Since the item was published we have received two letters from the other side of the Sierra Nevada, from persons claiming to be experts in bible pounding, one of whom—judging from his manner of writing—has been slightly off his ecclesiastical nut for a while, and needs to be subjected to the rectifying influences of a theological refinery before he can become shepherd of our lambs. We are sorely in need of a preacher, but we don't want any cheap trash. We want a good, muscular Christian, who can snatch sinners by the scuff of the neck and drag them howling up the plane of righteousness—one who will not drink more than he can hold, and who will not copy after Beecher further than to steal his sermons. Such a man will get a right smart layout here. If he can play the fiddle for the regular weekly dance it would augment his salary somewhat.

Why the Needle Points Northerly

[From the Scientific American.]

A San Francisco gentleman lately wrote to the Superintendent of the U. S. Coast Survey, Professor C. T. Patterson, asking the reason why the magnetic needle points to the north. In reply Professor Patterson wrote as follows, and possibly many more than the original inquirer may be glad to read his simple statement of the facts of the case. The reason why the needle points in the northerly direction is that the earth in itself is a magnet, attracting the magnetic needle as the ordinary magnets do; and the earth is a magnet as the result of certain cosmical facts, much affected by the action of the sun. The laws have periodicities, all of which have not been determined. The inherent and ultimate reason of the existence of any fact in nature, as gravity, light, heat, etc., is not known further than that it is in harmony with all facts in nature; even an earthquake is in perfect harmony with, and the direct resultant of, the action of forces acting under general laws. A condensed explanation in regard to the needle pointing to the northward and southward is as follows: The magnetic poles of the earth do not coincide with the geographical poles. The axis of rotation makes an angle of about 23° with a line joining the former. The northern magnetic pole is at present near the Arctic circle on the meridian of Omaha. Hence the needle does not everywhere point to the astronomical north, and is constantly variable within certain limits. At San Francisco it points about 17° to the east of north, and at Calais, Maine, as much to the west. At the northern magnetic pole a balanced needle points with its north end downwards in a plumb line; at San Francisco it dips about 63°, and at the southern magnetic pole the south end points directly down. The action of the earth upon a magnetic needle at its surface is of about the same force as that of a hard steel magnet, 40 inches long, strongly magnetized, at a distance of one foot. The foregoing is the accepted explanation of the fact that the needle points to the northward and southward. Of course no ultimate reason can be given for this natural fact any more than for any other observed fact of nature.

Pizen Switch.

A correspondent of the *Reno Gazette* gives the following as the origin of the name Pizen Switch: "It was named by one James Hayes. He got on a terrible drunk there, and he said the whiskey was poison. So he commenced to drink Vinegar Bitters, and read the advertisement about the Railroad from Intemperance to Ruin. This suggested to him the idea of calling the place 'Pizen Switch.' I know this to be true, for I have been a resident of Mason Valley, and was there when the switch was named."

LODES, LEADS AND VEINS.

LAWRENCE.—The following is a copy of Supt. Holt's weekly report:—

HAMPDEN, June 22d, 1880.

Wm. E. Brown, Esq., Secretary Lawrence Silver Mining Co.:

DEAR SIR—Our two-compartment shaft (four by four and one-half feet) is being continued on down in the vein, which is improving in character and richness as depth is attained. The quartz is of that healthy and thoroughly mineralized nature, readily known to the old miner as "lively" and "strong," and must be seen to be appreciated. Our vein so nearly as may be determined has a dip of seventy-five degrees to the northwesterly, the course being northeast and southwest. We are extracting daily fine specimens of rich auriferous galena ore, which when properly concentrated will pay handsomely for working. Owing to the nearly vertical dip we are but slowly cutting our vein and will be in ore for weeks to come, and on our one hundred foot level shall have but nine feet to drift to be again in ore. Present depth of shaft 32 feet 6 inches, and from this time forward our progress in sinking will be more rapid than heretofore. Water gives us no trouble and machinery works well.

Respectfully yours,

GEO. D. HOLT, Supt.

CARMEL.—At the Carmel Antimony mine the workmen have been busily engaged in timbering in a very substantial manner, putting in ten inch timbers, and making the shaft 8x12 feet in size. The following is a copy of Prof. Nickerson's certificate:

SOMERVILLE, Mass. June 14, 1880.

This is to certify that during last month I smelted one hundred pounds of antimonial ore sent me by Dr. H. F. Hanson of Bangor, Me., and purporting to be from a mine in Carmel, Me., owned by said Hanson together with J. F. Parkhurst, W. C. Pitman, H. L. Leonard, John F. Dorr and others, as I understand, and that from said ore I extracted about twenty pounds of metallic antimony. Also, that I visited said mine, and that I believe that the prospect of extracting remunerative amounts of antimonial ore is very good.

WM. EMERY NICKERSON.

FRANKLIN.—The Franklin shaft is down 30 feet—timbered about 16 feet. The vein matter is improving rapidly both in quality and quantity.

FRANKLIN EXTENSION.—The Franklin extension is taking the lead in push. The shaft is now 30 feet deep and going at the rate of 1 ft. a day. The ledge is looking finely and bids fair to rival the Franklin in a short time.

SWAN.—Good progress is being made and the shaft has now reached a depth of 55 feet. The vein is widening and is well mineralized with argentiferous galena.

FRENCHMAN'S BAY.—The vein is six and one-half feet in width and the shaft is 41 feet deep.

CHERRYFIELD.—New buildings completed. Gallows frame is in place, and every thing else in readiness for the machinery, which will be received the coming week. Ore from eastern drift is of a very fine grade, giving average assays of 100 ounces of silver per ton. Everything about this property is looking first class, and very encouraging, and the owners feel confident of making this mine a grand success.—[*Sullivan Bulletin*.]

JONESPORT.—Mr. E. J. Swan is about opening a mine on an island in Jonesport, with a promising prospect.

Gouldsboro.

GOULDSBORO.—Any one going into the village of "West Bay" at Gouldsboro would find it difficult to realize that this is

there is no evidence of such a state of things. In this little village every man is at work and is paid fairly and promptly for his labor. The Gouldsboro company have piles of splendid ore on their dump, awaiting concentration by the concentrating works, now being rapidly built, and for which upon shipment they will receive a much larger amount of money than their entire expenditures have been since the first blast was made in their mine. Their new shaft house, 86x42 feet, is nearly completed; their hoisting engine—weight three and one-half tons—boilers, steam drills and Knowles pump, have all arrived and are being put in place. Both the shaft and open cut are showing unexcelled veins of rich ore; taking it all in all the looker-on must be convinced that this mine will pay, and that speedily.

WEST BAY.—Its neighbor, "the West Bay," is younger, but gives promise of soon making as good a showing as its parent. It already, at but thirty-two feet in depth, shows a pay streak of about twenty inches, of fine galena, assaying more than one hundred ounces of silver to the ton, and the vein is widening very satisfactorily. To sum up, this mine is all right. A large force of men are at work on the dam and concentrating works, and vessels and teams are arriving with lumber and machinery. Money is plenty and the people content, as also, as far as we can judge, are the stockholders in these enterprises.

Sullivan.

The following notes about the mines of this district are from the *Sullivan Bulletin*:

SULLIVAN.—Energetic work is being carried on at this mine by Superintendent Tilden. The surface around and near the works presents a lively and active appearance, and those who have been accustomed to look upon the old Sullivan works, in days gone by, are agreeably surprised and astonished at the great change and improvements made within the past few months. The foundations for mill machinery and buildings are going up as rapidly as the nature of things will permit. The balance of the mill machinery is all on the way from New York, and it is hoped will arrive here shortly. Usual good progress is being made under ground. Shaft No. 2 has attained a depth of 106 feet.

FANEUIL HALL AND SULLIVAN.—Superintendent Hayward reports a valuable strike in the quartzite cropping out on the shore of the land owned by the company. The quartzite is heavily charged with sulphurets of iron and looks quite promising.

WAUKEAG.—The crosscut is in about 58 feet; the ground is improving, and the indications are flattering. The Rand drill is doing steady and good work.

PINE TREE.—The west drift from the 125 foot level has now shown a good grade of ore the entire distance. Two new bands of ore have recently made their appearance and it is expected will soon develop into a large body.

MILTON.—Shaft No. 1 is 145 feet in depth and gives unmistakable evidence of the near approach of the outer vein. Shaft No. 2, still timbering, and will be completed in a few days. Sinking will then be resumed with a Burleigh drill, run by compressed air. Are now laying additional air and steam pipes between shafts 1 and 2, and making other necessary preparations to set up the Burleigh air compressor and for making necessary connections. The mill has been completed for some time, but cannot be started up until the pulleys ordered from Boston some time ago will arrive here. Are now preparing station timbers and putting matters in shape for extensive and continuous work.

MILLBROOK.—The crosscut is in about 12 feet, and expect to strike the vein soon, when developments of a substantial nature are confidently looked for. A new blacksmith shop has just been completed, which adds greatly to the convenience of

ASHLEY.—Working day and night shifts, and making the usual progress sinking and drifting. Machinery works first-rate, and the outlook for future good results are more promising than ever.

SALEM SULLIVAN.—Are now receiving lumber for shaft house, which will be completed in a short time. The shaft is now 40 feet deep, and discloses a vein well mineralized, two and one-half feet wide. We take a great deal of interest in the development and progress made in this mine, because it has already established, without any reasonable doubt, the continuity of the Sullivan lode east of the Milton, which is a matter of great importance to the mining interests of this section.

GOLDEN CIRCLE.—Prof. Bartlett has found evidences of bismuth in the ore from the Golden Circle. This is the first discovery of this mineral in the State. He has also ascertained that the metal which has hitherto been supposed to be molybdenum is *tellurium*, and very rich in gold.

Blue Hill.

DOUGLASS.—Rapid progress is being made with the mill and Plantation Gregory is confident it will start up by July 5th.

TWIN LEAD.—Supt. Duff reports that the crosscut is in 30 feet and numerous stringers of copper ore have been cut through.

EXCELSIOR.—Mr. C. J. Hall, who contracted to sink the shaft to a depth of 50 feet, reports: "Work began with a full crew May 10th, having previously excavated in gravel some 6 to 8 feet and made a few blasts. We are now down 35 feet measuring from the surface of the ledge and 42 feet from the top of the cribbing. We are using an Ingersoll drill. This is one of the most heavily mineralized shafts in the valley and the mineral increases in quality as greater depth is attained. The dip of the strata is about plumb enabling us to follow the ore and keep our shaft vertical."

NORTH CASTINE.—One hundred pounds of ore from the mine were recently sent to Providence, R. I., and smelted by L. B. Darling and the gold and silver extracted have been exhibited to us. The gold weighed 47.84 grains and the silver 1 oz., 4 dwts., 18 grs. The value per ton of the ore is gold \$41, and silver \$23.40; total, \$69.40.

ROZIER.—A company under the name of the Rozier Gold and Silver Mining Company was organized about three weeks since, under the laws of the State of New York, with a capital of \$1,000,000, to work a valuable mineral property at Cape Rozier, in the town of Brooksville. The following are the officers: President, Col. Lewis Carr, New York; Vice-President, Hon. Geo. Walker, Portland; Treasurer, — of the Nassau National Bank, N. Y.; Secretary, B. G. Bean, N. Y.; Directors, Gen. Chas. C. Dodge, Col. Lewis Carr, Walter S. Poor, New York, and Hon. Josiah H. Drummond, Hon. Geo. Walker, Thomas G. Loring, Portland. The par value of the stock is \$10 per share and the office of the company is at 181 Broadway, New York. The president has recently visited the mine, and the officers are all confident that the property is one of great value. 160 tons of ore have already been shipped to New York for treatment.

DEER ISLE.—The brilliant showing at this mine together with the flattering report of Prof. Stewart have been the means of interesting several prominent capitalists in the property and they have accordingly purchased a sufficient amount of the treasury stock to place the mine upon a substantial footing and furnish funds to push the developments in a liberal manner for at least one year. The management has also been placed in their hands, and Samuel Hanson, Esq., of Portland, a well-known Banker, has been called to the Presidency, and Mr. S. Z. Dickson of Nevada is to have charge of the works. Ever since our first visit to this property several months since, we have had unbounded confidence in its value

and have been proud to speak of it as a Maine mine; and now that the company have secured Mr. Dickson's services as manager and have taken the proper means to supply their treasury with an abundance of funds for a working capital, we have no hesitation in saying that this mine will soon become one of the leading bullion producing mines in the country, and will render invaluable assistance in helping to remove the prejudice at present existing in certain quarters toward the mines of Maine.

DEER ISLE JR.—Down 60 feet in shaft and have erected shaft house 25x40 feet. Fourteen men are working in three shifts.

ISLAND CITY.—Things are looking well at this mine. The shaft is 30 feet down on the vein, which has widened gradually since the start.

DEERING ACTON.—Work has not stopped at this mine since the start. They are now down 60 feet in their perpendicular shaft and expect to strike the vein soon. The owners propose to push things right along and make a success of the property. Mr. S. Z. Dickson, who visited the property recently, expresses himself as being well pleased with the location of the mine.

CASCO ACTON.—Work is progressing rapidly night and day. A depth of 75 feet has been attained in the double compartment shaft. At 100 feet, drifting will be commenced.

HANCOCK.—The Hancock Gold Mining Company was organized Friday, at 99 Exchange street, with the following officers: President, John F. Eldridge, Boston; Treasurer, Lyman S. Hapgood, Boston; Secretary, C. W. Hobbs, Portland; Directors, John F. Eldridge, Lyman S. Hapgood, Alpheus R. Blake. The property of the company is in North Carolina. This is a placer mine and they will use the hydraulic process. Four men in one day recently took out nearly \$40 in gold. The office of this company is in Boston. The company was organized under the laws of Maine.—[*Portland Argus*.]

Nuggets.

At a recent meeting of the trustees of the Maine Agricultural Society it was voted to hold the State Fair in Lewiston for the next three years.

In the vicinity of the Deer Isle property, a vein ten feet in width has been prospected, showing galena and peacock copper. It is on the Brown farm.

Work has been suspended in the mine on the White place. Whether the owners have become discouraged or disgusted we do not know.—[*Coriana Herald*.]

The Maine Mining Exchange Company will probably be organized in a few days. The subscriptions are being rapidly paid to Isaiah S. Emery, Trustee.

Dr. Parker, of the *North Star*, has struck a bonanza. It is located in the town of Maysville in Aroostook county and the showing is handsome copper ore.

Walter Tripp, foreman in the Exeter Mining Company's shaft got quite badly burned Tuesday by the premature explosion of a seam charge.—[*Newport Times*.]

Dr. Stevens, of Veazie, has shown us specimens of quartz containing free gold from the Joseph Stevens place in East Thorndike. The property has been thoroughly prospected and workmen are now sinking a shaft. The vein is about ten feet wide.

We have received the Maine Register for the year 1880. It is an invaluable work and should be in the hands of every business man. Although not correct in every particular, it contains a vast amount of information. Published by Hoyt, Fogg & Donham, Portland. Price \$1.25.

The Colonial Gold Mining Company has been formed in Montreal, with a capital of \$2,500,000, to develop mines in the county of Beauce, Province of Quebec, at the junction of the Du Loup and Chaudiere rivers, sixty miles from Quebec. Over 200 miners have gone to the Beauce diggings this season.

ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.

President, Hon. F. M. Loughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Loughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.

President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.

Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.

President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.

WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.

President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.

CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.

President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.

Office 7½ Lisbon St., Lewiston.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.

President and Treasurer, D. H. Bisbee, Camden; Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.

JAMES MITCHELL, Manager.

BAYVIEW SILVER & COPPER MINING CO.,
All, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 60,000 Shares.

President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hincks, John R. Mason, Ezra L. Sterns.

W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.

Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neal; Directors—George Burnham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.

J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.

President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.

Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genn, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CONSOLIDATED ACTON SILVER MINING CO.
On the Acton Lode, Acton, Me.
Capital, \$1,200,000; 240,000 Shares. Par value, \$5. Non-assessable.

President, George P. Wescott; Vice President, John S. Morris; Secretary, Charles D. Clark; Treasurer, A. A. Dennett. Directors—G. P. Wescott, J. S. Morris, W. F. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Ferguson Haines, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.

The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.

Offices—22 Exchange St., Portland, Me., and 23 Court St., Boston, Mass.

CLARK SILVER MINING CO., FRANKLIN
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.

President, Henry L. March, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. March, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. March, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.

President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.

W. A. LEONARD, Supt.

CONSOLIDATED HAMPTON SILVER MINING CO., Hampton, Me. Incorporated by special act, February, 1880.

Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 80,000 Shares.

President, Hon. F. M. Loughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Loughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.

THOMAS CAHILL, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.

President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 52,000 Shares.

President, Samuel Hanson, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Samuel Hanson, Curtis A. Parsons, Willard C. G. Carney, James Sampson.

S. Z. DICKSON, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.

President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.

HENRY L. GREGORY, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.

President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphalet Clark, M. D., John S. Morris, James G. Tukey, M. G. Palmer, E. D. Eastman.

Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.

GEO. W. COLLINS, Supt.

EDGEWOGGIN SILVER MINING COMPANY
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.

Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. P. Currier, S. D. Leavitt, H. W. Sargent, Wm. R. Page.

Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 1 Exchange Place. W. H. McClintock & Co., Transfer Agents.

J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.

President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meaher.

Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.

President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.

President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.

JAMES MITCHELL, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.

Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.

President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owen Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.

HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.

CHAS. E. LANE, Brooks, Supt.

D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.

President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.

C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each.

President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Lattin, Jeremiah Wooster.

FORT KNOX SILVER MINING CO.,
Prospect, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each.

President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors, Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.

A. R. FELLOWS, Supt.

FANEUIL HALL & SULLIVAN MINING CO.
Incorporated Feb., 1880.
Capital, \$500,000, divided into 100,000 shares, forever unassessable.

Maine office, Ellsworth. Treasurer's office, 107 Faneuil Hall Market, Boston.

President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Fannum, F. W. Morrill and F. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me.

A. A. HAYWARD, Supt.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.

President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.

Office, No. 1 Pemberton Square, Room 4, Boston.

BROWNELL GRANGER, Supt.

GARDNER MOUNTAIN COPPER MINING CO.
Littleton, N. H. Incorporated under laws of Maine, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund 50,000 Shares.

President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.

President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000. Shares 10 each.

President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. P. Reed.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.

President, Judge A. P. Wiswell, Ellsworth.
Treasurer, Charles C. Burrill, Ellsworth. Secretary, J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.
President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.

Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.
President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. I. Huxford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Ham, Jackson; John H. Gordon, M. Chase, J. I. Watts, I. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.

Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.
Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.
Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Dutton, Blue Hill; J. S. Condon, Orland.
TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.
President, Wm. H. Darling, of Blue Hill; Vice President, John S. Jenness, Bangor; Acting Treas., Wm. E. Brown, Bangor; Sec'y, Wm. E. Brown, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
GEO. D. HOLT, Supt.

LEBANON-ACTON SILVER MINING COMPANY,
Acton, York County, Me. Incorporated, Feb., 1880.

Office—29 Exchange, corner Milk Street, Portland, Me.
Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable, 100,000 shares in the Treasury.
President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Reddick, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
EDWARD B. SMITH, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares \$1 each.
President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY,
Organized under the laws of the State of Maine.

Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.
President, D. H. Smith, Winterport; Treasurer, E. Fernald, Winterport; Secretary, Walter H. Fry, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.

President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.
Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAUM, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares \$5 each.
President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.
F. W. CROSBY, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.

Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.
President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.

Capital, \$500,000. Shares, \$5.00 each.
President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.
C. E. LANE, Brooks; Supt.

PETIT MENAN SILVER MINING COMPANY,
Petit Menan Point, Steuben, Me. Incorporated, Aug., 1879.

Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. E. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyndal Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp. July, 1879.

Capital, \$400,000; Shares, \$10 each; Treasury Fund, Shares.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett. P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.
President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thaxter, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.
WILKIE DARLING, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.

Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.
President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.
E. J. SWAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 25,000 Shares.
President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROURKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.

Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, Shares.
President, Geo. B. Brown, Boston; Secretary, B. P. Tilden, Sullivan; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.
SIMEON B. SMITH, Supt.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.

Capital, \$500,000; Shares \$5 each.
President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN-LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, Shares.
President—E. M. Hersey, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—E. M. Hersey, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

TRIO SILVER MINING COMPANY,
Mine at Blue Hill. Offices, Bangor. Capital, \$500,000. Shares, \$5. Treasury, 25,000 shares stock, and \$3000 cash.

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ARTHUR HUNT, Acting Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.

President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.

Treasury Fund, 30,000 Shares.
Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Collin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me.

Office, Ellsworth, Me. Incorporated, Feb., 1880.
Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, 22,000 Shares.
President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.

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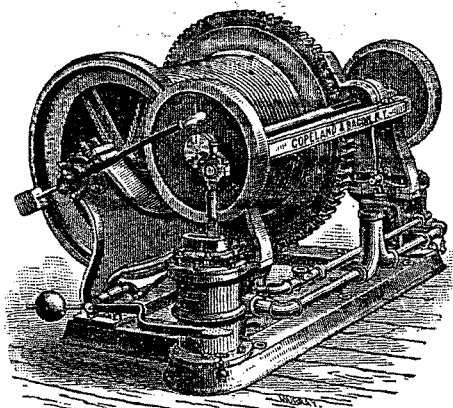
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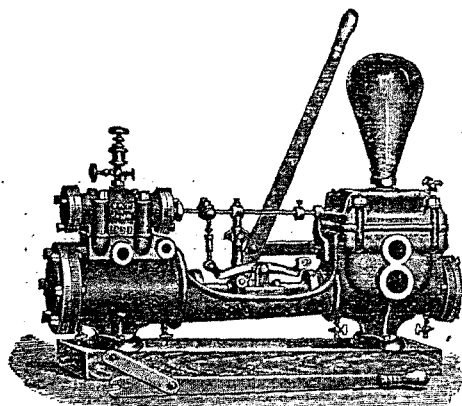
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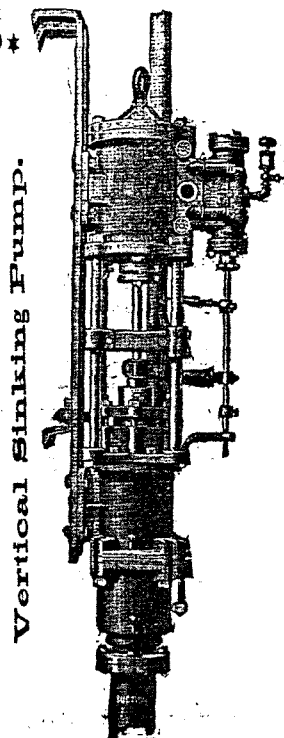
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[Entered as second-class mail matter.]

Vol. I. No. 27.

BANGOR, MAINE, JULY 2, 1880.

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P. O. address, 304 Commercial St., Portland, Me.

Have had large experience as a practical miner, prospector and engineer. References, by permission—Prof. Edwin A. Curley, Deadwood, Dakota; Hon. James Bailey, Josiah Burleigh, W. H. Sanborn, N. M. Perkins & Co., Portland, Me.; Herrick & Byard, Sedgwick, Me.

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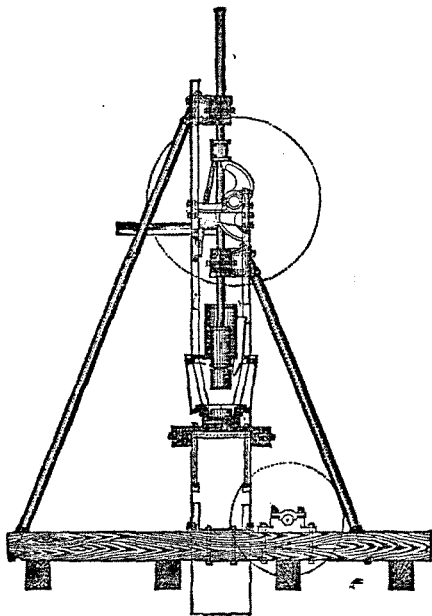
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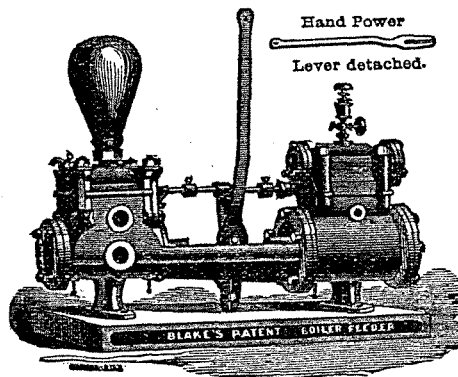
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Bangor, June 1.

Bucksport & Bangor Railroad



CHANGE OF TIME, JUNE 28, 1880.

	A. M.	P. M.
Leave Bucksport	6.00 10.30	5.00
Arrive in Bangor,	7.00 11.45	6.00
Leave Bangor,	7.35	1.30 7.20
Arrive in Bucksport,	8.45	2.45 8.30

Direct connection is made with trains on E. & N. A. Railway, thence with Bangor & Piscataquis Railroad. Also with the two through trains of the Maine Central.

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Bucksport Daily for Orland, Castine, Penobscot, Bluehill, Ellsworth, Sullivan, &c.
Jun 30 L. L. LINCOLN, Supt.

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CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West.

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WM. WEEKS, J. B. COYLE, JR.,
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Stages leave Bangor for Ellsworth at 8 o'clock A. M. and 8 P. M., or on arrival of Western trains from Portland and Boston, connecting at Ellsworth with stages for Bar Harbor, Sullivan and surrounding towns. Good covered coaches run over this line between Bangor and Ellsworth. Extra teams furnished at all times, at reasonable rates, at their stables in Bangor and Ellsworth. JOHN M. HALE & CO.

Ellsworth, March 2, 1880.

BUCKSPORT AND BLUE HILL STAGE LINE.

The stage leaves Bucksport daily, Sundays excepted, at 1 P. M. for Blue Hill and Sedgwick.

Returning, leaves Blue Hill, daily, Sundays excepted, at 8 A. M. for Bucksport.

Tickets sold at the depot in Bangor through to Blue Hill, and by the Blue Hill driver through to Bangor.

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We have the best stock of these Suits in Bangor, made, trimmed and pressed as good as custom work, and

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Where and How to Find Them.

Containing a description of the principal ores,
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Bangor, Me.

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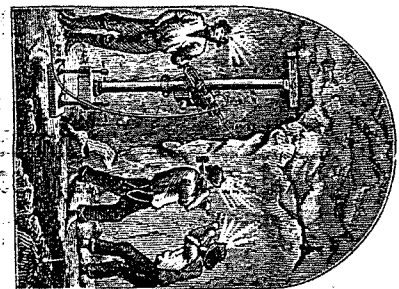
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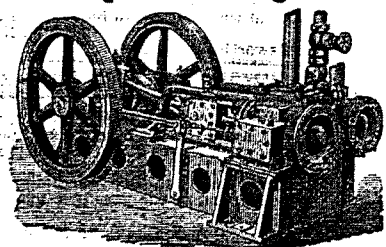
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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

Subscription price, postage paid, \$2.00 per year, strictly in advance.

Advertising Rates:—For outside pages, \$1 per square for first insertion, 40 cents for continuance; for inside pages, 75 cents for first insertion, 25 cents for continuance. Liberal discount on time contracts.

Communications relating to mines and mining are solicited from all sources, and must be accompanied by the writer's name.

Information from Superintendents and Secretaries, showing the actual condition of the mines, is specially invited.

Samples of ore sent by mail or express, must be prepaid.

Letters should be addressed to

MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JULY 2, 1880.

NEWSPAPERS AND MINING.

The mining interests of Maine have grown within the short space of one year from comparative insignificance into an industry which commands the attention of the whole of New England and has received recognition from men of prominence and newspapers all over the United States. Even the journals published in the mining districts of the far West and on the Pacific slope make mention of it; some sceptically, others sneeringly, while not a few speak of the matter hopefully, and seem disposed to give us a fair show; and if it can be shown that we have mineral deposits in this region which will pay to work, are inclined to give us due credit, and assist in placing Maine in the list as one of the mining States of the Union.

How different in our own State. By far the greater portion of the press have utterly ignored the developments going on all around them, and a considerable number of State newspapers have bitterly opposed all attempts to create a new and important industry in our midst. Whatever may have been their motives we do not at present propose to discuss the matter; we may have occasion to refer to them hereafter, as we shall soon find them crawling back into line and pretending that they have been friendly to this great interest all along but that they were fearful of exciting a mania for speculation, etc. The men who have so freely given both time and money toward developing the mineral resources of this State have no reason to be grateful to the press as a whole for any assistance rendered them. With a few note-worthy exceptions (which are already placed upon the role of honor) the newspapers *would not* understand their motives and have been antagonistic to the whole business. Even at the present time, no one would imagine from reading the political or family newspapers of this State that mining had become a great and important industry with us, and yet the fact that a JOURNAL entirely

devoted to mining is published here and receives abundant support proves conclusively that such is the case.

We have flattered ourselves that in Bangor we had one daily newspaper which would not only publish real items of news regarding the progress of mining affairs in this State but would refrain from saying anything, either editorially or through selected articles which should tend to throw discredit upon the business in which many of its patrons, as also a large number of other reputable business men of the State were engaged. More, we did not expect. But alas! we see plainly that the mining men of this locality must fight their battles alone, and look for no assistance from the newspapers which they help support.

The *Daily Commercial* a few days since published a letter written by the infant of the N. Y. *Sun*, descriptive of Leadville and its surroundings, which contained so many absurd and ridiculous statements that we did not consider it worth the while to mention. A place which from an uninhabited spot has become a city of 45,000 inhabitants in less than three years and has produced in bullion from Jan. 1, 1879 to April 1, 1880—15 months—\$16,147,131 or over one million dollars per month, does not need to have its story told by us. Last Monday, June 28, appeared in the same paper an article from that old disgruntled organ, the *Springfield Republican* which again contained statements so manifestly untrue with regard to the mining interest that we thought no one would be silly enough to pay any attention to it. The following day—Tuesday, June 29, still another article was copied into its columns from the New York *Sun*, written by the same tenderfoot who gave the aforesaid gloomy description of Leadville, and who is evidently troubled with dyspepsia in its worst form, to say nothing about his brain trouble which is chronic (for we know him well) and cannot be remedied. We should not refer to it but for the fact that it is so full of figures that some might be inclined to accept the conclusions which are reached without wading through the mathematical problem which he has given. We will simply quote one short paragraph and leave it for our readers to judge how much the fool's statements are worth. He says: "Suppose a mine has been opened and there is \$10,000,000 of ore in sight. It is proposed to stock this mine for \$5,000,000 at par. But, the mine has got to pay back not only the \$5,000,000 invested, but the interest also." There is considerable more of that sort of stuff. There are upwards of one hundred mining companies in Maine capitalized to the extent of \$500,000. Does anyone but an idiot imagine that \$50,000,000 have been invested in mining operations in this State, and that fifty millions of dollars in bullion must be extracted before mining in this district can be called a success.

The facts of the case are just this: Mining can make a better showing to-day than any other industry on the face of the globe. Statistics show that 95 per cent. of all mercantile and manufacturing enterprises result in failure. Railroads, which have been considered among the most profitable of all investments, having time and again received assistance from the government, have paid but about 2 1-2 per cent. per annum on the capital invested, while mining has paid upward of 18 per cent. per annum, in spite of all obstacles. The very fact that evil and designing men make

use of the reputation which mining has acquired to further their own selfish interests, proves conclusively that it is generally considered not only a legitimate but a profitable business.

The time will come and is not very far distant, when some of the newspapers of this State will repent of the rash and foolish statements they have made with regard to mining, and would gladly recall all they have said concerning it. But it cannot be. We have it all down in our scrap-book, and we do not intend that either themselves or the public shall forget the course they have taken while the very best men our State contains were striving to build up a great and remunerative industry in our midst.

TREATMENT OF MAINE ORES.

A short time since, appeared in the Portland dailies, a brief notice of the trial in that city of a new process for smelting ores, said to be the invention of a man by the name of Lowery and called the Lowery process. It was claimed that ores even if of a refractory nature could be reduced to bullion in a shorter time and at less expense than by any other known method.

By the *Argus* of June 28, we see that as the result of the experiments, a company under the name of the Maine Mining, Smelting & Bullion Co. has been organized with the following list of officers: President—Geo. W. Parker, Portland; Vice-President—W. G. Burnham, Warren, N. H.; Treasurer—Moses G. Dow, Portland; Secretary—F. L. [unclear], Portland; Directors—L. D. M. Sweat, Ezra Carter, James N. Winslow, Geo. W. Parker, of Portland, and W. H. Lowery and W. G. Burnham of N. H. Superintendent, W. H. Lowery. The capital stock is \$500,000, divided into 100,000 shares, par value \$5 each, of which 25,000 shares have been placed in the treasury, ten thousand of which are offered for sale at \$1 per share. The company announce their intention to erect works immediately at Loring's ship-yard at the eastern end of the city of Portland and they propose to purchase and pay cash for all good ores of whatever nature.

Good smelting and sampling works, furnishing a market for the great variety of ores now being mined in this State, where those which might be treated by simple processes could be reduced and others more refractory sorted and shipped to other ports where a speciality is made of handling rebellious ores, would supply a much-needed want and be just what Maine needs at the present time to bring her before the country as a bullion producing district. But, in our eagerness to have such works established, we must not lose sight of the fact that upon their success or failure are largely dependent the future prospects of the mining industry in this State. A large amount of money has been expended by our people during the past year in mining operations. We have ascertained what some of us did not realize at the start, that the development of a mine is a tedious and expensive process. Most of us are unwilling and many could not if they would expend much more money in these enterprises until they have received some return for the amounts already invested. We need, we must have the assistance of outside capital to carry forward the work to a successful issue. The sceptics and croakers who have per-

sisted in saying that our deposits of precious metals would not average \$1.50 to the county, have been compelled to admit that we have an abundance of ores, and rich ores too, but they console themselves by making the statement that these ores are refractory and that the expense of extraction will be greater than their market value. We, of course, know the folly of such assertions, but what is needed is to make capitalists abroad believe as we do. They are even now anxiously looking this way and are only awaiting substantial returns in the shape of bullion and dividends before entering this new field. When they can see these with their own eyes, and thus become assured that mines in Maine may be profitably worked, many who have hitherto invested their surplus funds in the mining districts of the far West will transfer their field of operations to this State, others who have been shy of venturing with their capital into such remote regions will no longer have any hesitancy about assisting in the development of these mineral resources so near at hand, all doubts as to the value of the deposits will be removed and the success of the mining industry in the East will be assured. Consequently, if works are to be erected for the treatment of our ores it is of the utmost importance that some tried and sure process should be adopted with which there can be no possibility of failure. Should such a result occur, the want of success would be attributed to the character of the ores rather than to the inefficiency of the method of treatment.

With regard to the scheme in question, we do not condemn it, as we are not sufficiently familiar with the process to judge fully of its merits or demerits; and of course if the company will purchase the products of the various mines at prices which they would bring in other markets, there could be no fault found. But we do as a general thing object to the so-called *patent* processes. Ore reduction has been carried on from time immemorial, and improvements in machinery and methods have been constantly made, until today in the largest establishments of the kind it has well-nigh reached a state of perfection. The experiments which have been made with Maine ores, so far as we are aware do not show that any special method of treatment is required for their treatment. Furthermore, if we remember rightly, this same process was tried at Newburyport a few years since, without success.

Our idea with regard to the treatment of the ores of this State, as far as their present character is determined, is this: *Milling ores*, such as those of the Sullivan district, seem to require a crushing and amalgamating mill similar to the one now being erected at Sullivan. A single mill of this character, which could be enlarged from time to time when necessary, could treat the ores in its immediate locality for some time to come, or at least until their permanent character had become established. Others could then be erected when needed, with such additions or changes as the ores required. For *smelting ores*, substantial and well-managed smelting works, established upon a sound basis, and centrally located, are what is needed. We would like to see such works erected in Bangor, but we have no hesitation in saying that Portland possesses far more advantages for this business; in fact it is not easy to see how that location could be excelled. For *low grade*

smelting cres, concentrating works upon a large or small scale as the output of the mine or mines might determine, are needed on the ground; the ore may then be shipped to the smelter without the expense of freighting on worthless rock.

What has become an imperative necessity is a home market for our ores. It is not simply *smelting works* which are needed, but a sort of *ore mart*, such as the ore docks of Jas. Lewis & Sons at Liverpool, which Prof. Bartlett has described to us in his letters; a place where ores of every grade may be brought, their assay value ascertained, and a fair offer in cash made for a given lot. It must of course be under the management of a competent and experienced person, who could by sorting and mixing the ores from different localities make marketable at good prices many lots which would otherwise be very nearly worthless. We believe such an institution is by no means an impossibility; and while benefiting immensely the mining interests of New England, it could not be other than a profitable investment, whether controlled by a stock company or by private parties.

Personals.

HON. EUGENE HALE recently visited the mines at Sullivan.

GOV. DAVIS in his recent address to the Republican State convention alluded to the importance of the mining industry in Maine.

MR. W. H. ADAMS, of the Maine Mining Exchange of Bangor, was recently in Boston and reported a great improvement in feeling at the hub with regard to Maine mines.

SUPTS. GREGORY of the Douglass, MOYLE of the Blue Hill, LE PROHON of the Atlantic and HUNT of the Trio were in the city on Saturday and attended the Great London Circus.

PROF. W. F. STEWART took the steamer in this city for Boston on Wednesday last and after a stop of a few days in that city will depart for New York where he will make his headquarters during the summer months. He will return to Maine in the early fall.

CAPT. PENDLETON, of Blue Hill, and J. B. COOKE, of New York, made us a recent call. MR. COOKE will be remembered as one of the former publishers of the Boston *Economist*. He has taken an active interest in the mines of Maine and his present trip combines business with pleasure. He will probably remain in Maine during quite a portion of the summer.

CONRAD WIEGAND, a noted chemist, metallurgist, assayer and financier of Virginia City, Nev., committed suicide last week, by hanging. Domestic afflictions and financial difficulties are supposed to have been the cause. The San Francisco *Stock Report* says "he was continually surrounded by a swarm of harpies who robbed him of his ideas and bled him of his cash." He was the author of Senator Ames' silver bill.

We received a few days since, a call from J. A. SPENCER of Milford who showed us an assay made by Tom Cahill (which is a sufficient guarantee of its accuracy) of ore taken from a property in the town of Dedham, about seven

miles from this city, the mineral right to which he in company with J. W. Waldron, Esq., of Oldtown has secured. He states that it is a well defined lead, in a slate formation. The assay is as follows: Gold—\$12.55 per ton; Silver—\$12.56 per ton.

COL. GRANGER, Supt. of the Granger, recently had a very narrow escape from a serious accident. The timbering of the shaft was about completed when a heavy timber fell down the shaft. COL. GRANGER and several men were at the bottom of the shaft. The timber grazed the shoulder of the COL. and struck one of his toes breaking it. Had not his foot been covered with several inches of grout that member would have been severely mangled. The escape of the COL. and his men was remarkable.

GEN. JOHN A. SUTTER, famous in the United States as the owner of the land in which gold was first discovered in California, is dead, having suddenly taken his departure for "the other side" on Friday. Sutter was a kind-hearted, generous old man, who was held in high esteem by old Californians. For many years he resided in Pennsylvania, and was understood to be in moderate circumstances. He was a petitioner to several successive Congresses for an appropriation, but never succeeded in getting his bill through. There seemed to be a disposition to give the old man something, but there was a difficulty in finding a reasonable excuse or precedent for granting a pension or bounty.—[*Salt Lake Herald*.]

Dips, Spurs and Angles.

The Bodie mines have paid \$3,000,000 in dividends.

Gold and silver veins are said to have recently been discovered on the Moose River, Lewis county, N. Y.

It is said that the deepest gorge in the world has been discovered in Colorado. We always had the impression that the biggest gorge in this country might be witnessed at a railway station where the train stops five minutes for dinner.—[*Norristown Herald*.]

As an inducement for Chicago people to go to Deadwood the papers of the latter place publish statements that a Chicago man can now leave for the Black Hills on Monday, reach Deadwood on Thursday, get into a dispute with a leading citizen and have his body sent back to Chicago in eight hours.

The blarsted grasshopper has even got down this far south, but just what he will find here to appease his voracious appetite is a puzzler. There is no vegetation around the Reef to speak of, and not much old machinery to eat up. If silicious sandstones or conglomerate will do him for square meals, why, he can get all he wants.—[*Silver Reef Miner*.]

The Union shaft on the Comstock lode, which is jointly owned by the Mexican, Union Consolidated and Sierra Nevada mining companies, is to be enlarged by the addition of a fourth compartment, making it the largest mining shaft in the country. New pumping engines capable of raising water 3,000 feet and upward are being constructed at the shaft.

Many are the compounds put forward with more or less success to imitate gold. A new preparation says *Iron*, is made of copper, 100 parts; pure tin, 17; manganese, 6; common tartar, 9; ammonia, 3.60; and chalk, 1.60. This is said to form so close an imitation of the precious metal that it can only be distinguished from it by the difference in weight. The alloy can also be worked into leaves as thin as those of gold.

COINAGE FOR MAY.—During the month of May the Mint in San Francisco coined 49,000 double-eagles, 62,000 eagles, 3,000 half-eagles, and 800,000 standard dollars—in all, 1,000,000 pieces, of the value of \$2,890,000. At Carson, Nev., the amount coined was: Half-eagles, 9,500, value, \$47,545; 87,000 standard silver dollars—in all, 96,509 pieces, of the value of \$134,545.

"Where are you going this summer?" asked Quarterper-cent, the broker, of one of his customers the other day. "Going? With Water Power down to 6 1-2, Erie selling for 35, and the copper mining stocks ten feet below low tide, I thought some of going to the alms-house, but I rather guess I shall try the old style—creditors' meeting—25 cents, with my own notes running twelve, eighteen and twenty-four months, you know. Soon as that's settled I'll go to Saratoga—must make something somehow, you know."

Where at one time, says the Eureka *Leader*, was Ruby Lake there is now not a drop of water. Seven or eight years ago this sheet of water was from 18 to 20 miles long, and varied in breadth from half a mile to two or three miles, and in a number of places was very deep. The lake was fed by numerous springs along the foot of Ruby Mountain, and was the largest body of water in Eastern Nevada. For some years past it has been gradually drying up until it has at last totally disappeared. No cause for its disappearance can be assigned. The Ruby range of mountains is considered the largest and finest between the Rocky Mountains and the Sierra Nevadas, and besides being well wooded has been the best watered mountain range in Nevada.

NOTES ON THE MINES OF THE EASTERN COAST OF MAINE.

BY F. L. BARTLETT, STATE CHEMIST,
PORTLAND, ME.

Years ago, even dating back to 1836 something was being done in the way of mining in the town of Lubec in Washington Co., and at irregular periods ever since spasmodic mining has been carried on at different points in Lubec and the adjoining towns, while just opposite in the Province of New Brunswick mining has in some instances been quite successfully prosecuted. In a trip just completed I have had occasion to visit some of the older workings as well as a number of new ones, and a few notes may possibly be of service to our mining men who propose to visit this part of the country.

In the glamour of the new and wonderful discoveries at Sullivan and Blue Hill, this old mining district has been almost wholly neglected, yet I am satisfied that now as we are beginning to settle down to legitimate work, this old interest will in a measure be revived, indeed I was somewhat surprised to find that considerable prospecting is going on in Eastport, Lubec, Pembroke and the provincial town of Maccarene, and it seems quite probable that the old Lubec mines will soon be reopened.

THE GEOLOGY

of this section of our State is peculiar and demands hard study to elucidate. Neither Profs. Hitchcock or Jackson attempted to fully describe it and much yet remains to be cleared up in relation to the ages of the rocks and their proper classification in our geological records. It would require months to properly locate, determine and understand the geological features of this most remarkable section of our State.

The town of Eastport is located on an island wholly composed of igneous rocks; trap and basalt, porphyry and flint are the leading rocks of this island. Immense trap dykes of green stone are to be seen everywhere, also columnar basaltic rocks. Originally or primarily, clay slates alternating with calcareous slates and quartzite made up the rock formation but these have been metamorphosed or altered

into flints, greenstones and lime porphyries, rent in all directions by trap. Certain bands of rock retain their original laminated structure only having become harder by the heat action. Ores of iron, lead, silver, zinc and copper are inclosed in these rocks. Cross veins frequently occur well charged with these ores. One thing particularly noticeable is the purity of the copper sulphurets; almost invariably these are the pure pyrites containing from 25 to 34 per cent. of metallic copper; there seems to be no admixture of other metals such as copper pyrites usually contain; this applies not only to the ores of Eastport but to those of Lubec, Pembroke and Maccarene as well. On what is known as Keadall's Heal there has been discovered by Mr. A. M. McIsaacs of Dennysville a good vein of argentiferous galena also one of copper. These veins have not yet been worked but they promise well and should be properly prospected and opened. Several other discoveries of minor importance have been made about Eastport; none of them however have yet been opened.

The general direction of the rock stratum about Eastport and in fact about all the adjacent territory is N. E. by S. W., with a dip to the S. E. scarcely ever more than 75 deg. and often vertical. Taking a section of country from Calais to Campobello Island, we have first—the mica schist ending two and one half miles beyond the St. Stephen's bridge; then commences a series of sienite granites including the beautiful red granite of Calais; these in Perry change into altered sandstones and metamorphosed clay slates alternating with bands of flint. These igneous rocks make up the formation clear to the S. E. side of the town of Eastport, or to the south line of the rock formation that strikes into Lubec. Bands of limestone now begin to appear becoming more and more regular and alternating with narrow bands of clay slates somewhat indurated. This limestone band is about three miles wide and runs through Lubec straight in a N. E. course to Maccarene, N. B. Numerous traps cut this formation and many good mineral veins are found in the belt.

The old "Ramsdell" lead mine of Lubec is in the limestone formation, also the old "Iron Mine" of West Lubec. Mr. R. H. Stearns of N. Y. has purchased both of these mines and proposes to open them again. The "Ramsdell" mine has a shaft down 110 feet and some very good ore has been extracted. The "Iron Mine" was worked years ago; there is a shaft down 149 feet with several drifts; 300 tons of good specular iron was extracted and sold. The formation about the iron mine is most remarkable. The veins are in jaspery flint and lime porphyry, while the gangue is pure calc spar or carbonate of lime.

The Denbo Point and South Bay lead silver mines of Lubec deserve a special chapter and as I propose another visit to these mines I will reserve them for a future description. The Lubec mines were worked many years ago and probably \$250,000 have been expended in developments.

The rocks of Lubec present to the geologist many surprising anomalous features. Trap rocks of every possible variety abound—"traps to the right of us, traps to the left of us, traps behind us have seethed and poured."—In fact, the whole country round and about Lubec is penetrated and riven by traps—greenstone, basaltic, bricciated, calcareous, porphyritic, and all other kinds ever named and some that are not. Altered clay slates, flints, limestones and porphyritic rocks also abound, small stringers of ore are common and since the ores are in strings and not diffused through the rocks we have every reason to believe that large and profitable veins exist.

MACCARENE, N. B.

This town lies in a N. E. direction from Lubec, distant twelve miles, and is a continuation of the same rock formation that I have described as belonging to Eastport and Lubec, with the exception that there is more limestone and less

trap, parts of the formation being very regular and perfect. Many croppings of copper ores, galena and zinc are to be seen along for a distance of 12 or 15 miles, all of them lying near or wholly in the lime belt.

At Cook's Point, Dr. E. S. Laughton and others of Calais have started a good copper vein. The ore is exceptionally fine, assaying from 20 to 30 per cent. pure metallic copper. It is in a well defined vein rather narrow at the surface but rapidly widening as depth is attained. Some two or three miles farther to the N. E. several mines have been opened on what I shall denominate the *Mascarene lode*. This great lode is remarkably distinct and true, and so far as I explored it, shows fair surface croppings. Quite a number of shafts have been planted on the lode; most of them unfortunately were ill advised, and instead of starting on the true lode have been commenced on spurs and cross veins, of which there are many, especially on the north side of the lode. Among the mines located on this vein are the Dick & Williamson, Revenue, Mascarene and Boardman's. The first three have shafts down from 40 to 75 feet, but in no instance on the true lode, although some very fine ore has been raised; the same amount of work expended on the true lode would have produced much better results. The vein runs nearly N. E. and S. W., dipping S. E. about 80 deg. The quartz croppings on the surface are frequently six feet wide; the walls are well defined; splendid copper sulphurets are found on the surface, and also fine galena. The quartz runs well in gold, some assays showing as high as two ounces per ton. Good, well directed work on these properties will accomplish wonders, and it is to be hoped that something of that nature may be immediately commenced. The lode contacts on one side with an immense trappean rock measuring in some instances 1000 to 1500 feet in width, and running the entire distance of the vein; on the other side limestone, succeeded by clay slates, and passing into quartzitic rocks. This makes the very best kind of a formation for a permanent vein. The out-crop of the great lode is plainly distinguished by the "gossan" or decomposed matter. At the extreme end of the Dick & Williamson lot Mr. Thaddeus Dick has tapped the main lode in several places, all of which shows splendid results. While exploring here Mr. Dick discovered evidences of a cave running along one side of the lode; an opening made in the hill side soon disclosed the mouth of a natural tunnel, running with the strata, of unknown length and dimensions. A pole with a lighted candle in the end was run in 50 feet without showing any signs of the end. This cave is in the limestone formation and was undoubtedly caused by subterranean waters dissolving away the limestone and ore. Mr. Dick will soon explore this natural tunnel which in all probability is very large and possibly something rare may be found.

There is plenty of good limestone here suitable for making lime but I believe none of it has ever been burned.

"Why the Needle Points Northerly."

Editor Maine Mining Journal:

Under the above heading there appeared in the *MINING JOURNAL* of June 25th, a reprint article from the *Scientific American*, from which the following paragraph is an excerpt:

The magnetic poles of the earth do not coincide with the geographical poles. The axis of rotation makes an angle of about 23° with a line joining the former. The northern magnetic pole is at present near the Arctic circle on the meridian of Omaha. Hence the needle does not everywhere point to the astronomical north, and is constantly variable within certain limits. At San Francisco it points about 17° to the east of north, and at Calais, Maine, as much to the west. At the northern magnetic pole a balanced needle points with its northern end downwards in a plumb line; at San Francisco it dips about 63°, and at the southern magnetic pole the south end points directly down. The action of the earth upon a magnetic needle at its surface is of about the same force as that of a hard steel magnet, 40 inches long, strongly magnetized, at a

distance of one foot. The foregoing is the accepted explanation of the fact that the needle points to the northward and southward. Of course no ultimate reason can be given for this natural fact any more than for any other observed fact of nature.

Although the writer of the article referred to admits the accepted theory that the earth is a true magnet, yet his explanation of the phenomenon of needle-pointing is so meagre and unsatisfactory that I shall venture a few additional words upon that topic.

At Copenhagen in 1820, Professor Oersted "discovered that the needle when placed parallel to a charged wire, assumed a right angle position to the latter." It appears that Oersted simply noted this as a peculiarity of magnetized bodies and failed to realize the profound importance of his discovery. "Subsequently," writes an American author, "Ampere of the French Academy, fully developed the laws of electro-magnetism and clearly explained the directive property of the magnetic needle. Since, according to the theory of Ampere, magnetism depends upon currents of electricity, it follows that the magnetism of the earth results from currents of electricity moving continually from east to west." (*Amer. Enc. Vol. VI, P. 511.*) The above quotation contains the entire gist of the matter and clearly explains the phenomenon of needle-pointing. When the quick brain of Ampere realized the fact that charged wires become magnetic and that the needle always assumes a right angle position to the flow of electricity through the wire, it was an easy matter for him to grasp the idea of the grand laws of terrestrial magnetism and to perceive that the mariner's needle simply rests at right angles to the flow of the earth's electricity, from east to west, and hence the needle must point north and south.

If the reader can imagine the earth enveloped in a coil of charged wire, the threads of which shall lie parallel with the lines of latitude, or at right angles to the meridian, he can form a rational idea of Ampere's theory of terrestrial magnetism. In fact, Professor Barlow, of Woolwich, England, in order to test Ampere's philosophy, constructed a large globe upon this very plan, and had the satisfaction of proving that the needle not only obeyed the law of attraction toward the magnetic poles of the sphere, but it also indicated the real cause of compass variation.

That the perpetual flow of electricity over the earth in a spiral direction from one magnetic pole to the other, may be attributable to cosmical causes, is within the line of probability; but whatever may be the source of the action, our senses convince us that the great electro-magnetic stream does forever flow over and through the earth's belt from east to west; that the needle always assumes a position at right angles to the flow, and therefore always points northerly and southerly.

Yours respectfully,

W. F. STEWART.

Bangor, Me., June 28, 1880.

Mining in Maine.

Editor Maine Mining Journal:

Only a few short weeks ago the "Maine mines" seemed a great success; bonanza kings were becoming plenty and Maine bade fair to rival Nevada, Colorado, Arizona, and other famed mining regions. Didn't we all feel rich and prosperous? Didn't we make a "grand sell" of the Blue Hill mine at ten to fifteen dollars a share, to mythical bonanza capitalists from Lake Superior? Other mines on the Blue Hill belt were being negotiated for by the same Lake Superior princely capitalists. Magnificent statements! Did anybody doubt their truth?

Now Mr. Editor, I think the anxieties and sober reflections of the past few weeks have made us realize that instead of this immediate brilliant success, we have to face a storm; admit some grim facts, and then endeavor to retrieve our mistake in mining and look out for the future.

One very great hindrance to successful mining in Maine is the present law incorporating her companies. Neither in Maine, nor elsewhere, can mines be opened and successfully worked, without an assessment law. Under the present state of things, in Hancock county—and I think most thoughtful

mining men will admit this—most of the mines will eventually stop from want of funds. A few mines on the Blue Hill belt, three or four at Sullivan and vicinity, and some few others in other parts of the county, may maintain themselves by their facts, and the help of strong capitalists who are not afraid to advance their money in a promising mine. The others cannot be worked without more capital and must necessarily close up and stop in a few months; and what is true of Hancock county applies to the whole State. These are grim facts and cannot be controverted. I can see no remedy but a good assessment law, and reincorporation of the companies under such a law; otherwise, many promising and productive mines will eventually be sold out by the sheriff and pass into the hands of capitalists from outside the State.

This present state of affairs in Maine is likely to have one beneficial effect upon her mining interests. I do not believe in buying sheep pastures and wild land, calling it mining property, and selling worthless shares to your best friends. Too much of this has been done, and mining men and speculators of this sort are now non-come-at-able when called upon to support their bantlings.

A little more scolding Mr. Editor and I am done. As a miner and engineer, I have been surprised, and mortified at the manner in which mining has been conducted in this State. In a great many, and I may say in a majority of cases, while little or no attention has been paid to developing the vein on which the companies build their hopes, great and extravagant mining shafts have been constructed, after the style of shafts on the Comstock and other well developed mines. No one of the company can tell anything about the vein; it has not been developed; and too often, enquiry of the mining operators elicits the reply that some Professor has reported upon it and declared it to be the finest showing in Maine. Upon such trivial and uncertain grounds great mining shafts are now being excavated and thousands of dollars expended. It will be well for Maine when her people are done calling sheep pastures mines, and are guided by a better and calmer judgement.

While discussing thus the unpleasant side of the Maine mines, I have yet strong faith in many of them, especially those at Blue Hill and Sullivan, where I am acquainted, and do firmly believe that with careful management, under proper superintendents, and with good judgment on the part of other officers, they will become extremely profitable in the future.

The attention of heavy capitalists from New York, and elsewhere is now being directed towards Maine, and a party of gentlemen from New York and Boston, will visit Maine this week to examine property on Cape Rozier and will probably visit Blue Hill and other localities before their return.

SIMEON B. SMITH.

Boston, Mass., June 28th, 1880.

The Sullivan Lode.

The Boston *Advertiser* of June 24, contains an elaborate description of the mines of the Sullivan lode, from the pen of Col. R. S. Lawrence, its mining editor. We would gladly publish it in full, but want of space forbids. Col. Lawrence has an advantage over most of the newspaper men who have visited this locality, in possessing a thorough knowledge of mining in all its details. We copy the closing portion of his remarks:

"The reporter of the *Advertiser* visits the lode and makes his report from personal examination, and he most cheerfully states that in no instance by act or word has any attempt been made to influence his statements for or against the mines. The companies have no corruption fund; have no stock to sell at present quotations; have nothing to conceal; are simply desirous, and for public reasons, that the whole truth about the mines should be given the widest possible publicity.

Neither the managers of the mines on the Sullivan lode nor the principal stockholders are mine manipulators or stock speculators. They hold a certain amount of the stock as an investment and will continue to hold it, whether the price goes up or down, until the mines are opened, the mills running, and the price of shares fixed by the product of the mines. As founders of a new industry in New England, however, they feel a certain responsibility resting upon them, and they are naturally desirous that the public should be advised from time to time, authentically, what progress they are making in the solution of labor problem. They recognize the fact that many of the industries of New England are failing. The lumber interest, ship-building, stone-quarrying and lime manufacturing, once great sources of wealth and the support of thousands of laborers, have sunk into comparative insignificance. Coal oil has superseded sperm oil, and the demand for men in the whale fisheries is comparatively small. New inventions in machinery have made the delicate hand and watchful eye of a mere child,

in some of our manufactories, equal to the former work of half a dozen full grown men. A few skillful engineers, armed with air compressors and drills, can drive a tunnel through a mountain in far less time than the work could formerly have been done by an army of giants. Too many of the young men of New England are being compelled to seek in the West that bread-winning employment which, from the causes enumerated and many others which will suggest themselves to the thinking man, they cannot find nearer home. Too many of the girls of New England are compelled to seek for labor and husbands far away from the home and friends of childhood. The men or association of men that shall found an industry that will stay this forced emigration and furnish employment of a remunerative character to the laboring masses, though it but return a new dollar for the old one expended, shall nevertheless be regarded by the State of Maine as public benefactors, and all New England should honor them. Not alone that they may add to their already independent fortunes—though this will certainly follow—do the promoters of the mines on the Sullivan lode labor. A nobler end is in view, the consummation of which should be most devoutly wished by every public-spirited citizen. And no citizen should allow himself to speak disparagingly or sneeringly of the efforts being made to found the industry of mining in Maine until he has at least visited the Sullivan lode.

The Middlesex Gold Mine.

In January last the Middlesex Gold Mining Company was organized in Portland under the laws of the State of Maine to work a mine in Orange County, State of Virginia. The officers are principally residents of Lowell, Mass. Two of the owners are citizens of Brunswick in this State.

In a recent issue of the Lowell *Daily Citizen* an article containing much of interest in regard to the property was published. We make brief extracts. The President has recently examined the mine, bringing with him samples of gold-bearing quartz ore and also a fine show of surface gold. The company have sunk several shafts upon the veins and one of the shafts has reached a depth of 86 feet, and a shaft house and double whim for raising water and ore have been completed. A drift at a depth of 40 feet has been extended 100 feet on the side of the vein and a crosscut shows the vein to be over 30 feet thick. The Superintendent has commenced to drive an adit so as to drain shaft at a good depth.

From a recent letter we learn that the company have a mine and not merely a prospect. There has been no desire on the part of the owners to sell stock and the men connected with the company in Lowell are all of the highest standing and would deprecate publishing any statement that would indicate a desire to sell stock regardless of real merit in the mine itself. Any information in regard to the mine can be obtained by addressing T. U. Eaton, Brunswick, Me.

The Beauce Gold Mining and Milling Company.

Specimens of the products of the Beauce Gold Mining and Milling Company, of Beauce County, Province of Quebec, Canada, were received yesterday by Messrs. Morey, Smart & Co., No. 63 Broadway, the financial agents of the company, and placed upon exhibition at their office. Many of our most prominent mining men inspected them and pronounced them truly remarkable. The specimens consist of black sand, carrying gold heavily, quartz, gold dust, and gold nuggets, one of which weighs nearly two ounces. The general impression is that this district is bound to create considerable excitement shortly. One gentleman goes so far as to say, "If these mines were in California 30,000 men would be there within a month." They are exceptionally located, being in close proximity to this city; ample facilities for wood and water, with labor plenty and cheap. The specimens will be on exhibition for several days, and the public are invited to call and inspect them.—[*Wall Street Daily News*]

Not Posted on Mining.

[From the Esmeralda (Nev.) Herald.]

Possibly our Eastern friends who are blissfully unconscious of the *modus operandi* of mining for the precious metals are not

to blame for their ignorance in the matter. Its display, however, is none the less amusing. As an illustration we mention the fact that one of our mine superintendents, while returning home from the East, was innocently asked by one of the stockholders, who accompanied him, how the provisions, clothing, etc., necessary for the miners and their families were transferred to the lower levels of the mine.

This reminds us of another case. A meeting of the trustees of a mining company convened for the purpose of discussing a proposition to sink a new shaft. Numerous suggestions had been made, when at length an original idea of dazzling brilliancy occurred to one of the members of the board. "Is there not a shaft on the premises already," he asked. He was answered in the affirmative, but that a shaft at a certain designated point would be much more convenient for several reasons than the one at that time in use. "Well," again questioned the worthy member with the utmost gravity and innocence, "instead of sinking a new shaft, would it not be much more economical to move the old one?"

Fatal Accident.

FIVE MEN KILLED IN THE YELLOW JACKET AND THREE OTHERS INJURED.

At 11:30 last Friday, Frank Hammond, shift boss at the Yellow Jacket, with seven men got on the skip at 3000 foot level to be taken to the surface. They had just rang the bell for hoisting, when a car-load of tools and the wheels of a car came down upon them, instantly killing Neil Gallagher, Alfred Temby, Tim Wilkins and E. Whitcomb. H. Williams had his arm torn off and died shortly afterwards. Hammond received a slight wound in the left jaw. John Frezona had his thigh broken, and Barney Coyle received injuries in the side and shoulder.

The accident was caused by the truck slipping from under a car of tools which was being hoisted in the south compartment. It threw both truck and tools into the north compartment, where they fell to the bottom, doing the deadly execution noted. The cage on which the car was, had arrived within forty feet of the surface at the time of the accident.

LODES, LEADS AND VEINS.

EXETER.—President Estabrooke informs us that the shaft is down about 14 feet and some ten tons of excellent ore has been taken out which will probably be shipped soon to be reduced.

CONSOLIDATED HAMPDEN.—The new compressor has arrived and very good progress is being made in sinking. The shaft is now about 155 feet in depth.

NOROMBEGA.—The timbering of the shaft has been completed and the work of sinking resumed.

LAWRENCE.—The following is a copy of Supt. Holt's weekly report:

HAMPDEN, Maine, June 30, 1880.

Wm. E. Brown, Esq., Secretary Lawrence Silver Mining Co.:

MY DEAR SIR:—Since my last report we have greatly improved the character and usefulness of our surface works by moving our commodious and but partially used blacksmith shop so as to cover and protect our hoisting machinery from storms, (or injury from other causes.) thereby securing a very adequate and neatly arranged hoisting works and blacksmith shop of a permanent nature at a trifling expense. We have also protected the mouth of our shaft by an independent canopy or hood in gable form attached immediately to the gallow's frame. With these improvements we are now prepared for all weather, and at an insignificant outlay. Our air shaft works well and excellent ventilation is thereby secured, removing the smoke after a blast almost instantly. The amount of ore we enabled to extract of a fine quality is daily on the increase rather than diminishing, and the outlook for the Lawrence I am happy to state is exceedingly bright. Good progress is being made sinking and everything in and about the mine is looking well.

Sincerely yours,

GEO. D. HOLT, Supt.

At a recent meeting of the Directors of the Company, John

S. Jenness was elected President and Jacob Stern Vice-President.

HARRINGTON.—The shaft has reached a depth of 50 feet and a crosscut has been commenced to find the other wall of the vein.

NORTH CASTINE.—Shaft down 28 feet in the solid rock and well timbered. Will commence drifting Monday next, on the vein. A fine derrick is in position, a substantial blacksmith shop has been erected and a carriage-way has been graded in a first-class manner leading from the mine to the main road. A block of ore was sent on Tuesday last to Providence, R. I., for exhibition, and a ton of the same intended to represent the true character of the ore across the vein from wall to wall, will be shipped in a few days to L. B. Darling of Providence to be worked. The company will probably organize on Wednesday next.

CAMDEN.—The Riverside mine is in a quiescent condition. At Pratt's mine, on the Whitney farm, the work is being pushed forward vigorously.—[Rockland Opinion.]

APPLETON. The work at this mine is being prosecuted vigorously.

ATLANTIC.—Supt. Le Prohon reports flattering prospects. He states that work is progressing in both the crosscut and drift and that good copper ore is being found.

TWIN LEAD.—The following is from the Supt.:

BLUE HILL, June 27, 1880.

E. M. Hersey, Pres. Twin Lead Copper Mining Co.

SIR—During the past week the crosscut has been pushed south passing through numerous feeders of copper ore. Last night after blasting I made an examination and found the full face in ore; there is no doubt that we are just entering the north side of the great ore body. During the week I have sorted about one hundred tons of ore that can be concentrated up to 10 per cent. copper. Our present prospects are very flattering, and all goes well at the time.

Yours Respectfully,

CHAS. DUFF, Supt.

HIGHLANDS.—The mine is located in the town of Penobscot. Professor Montroville W. Dickerson, of Philadelphia, recently reported favorably on the same and the published report has been received by us.

SULLIVAN.—Excellent progress is being made with the mill and the underground developments are progressing very satisfactorily.

WAUKEAG.—The news from this mine is very encouraging. After many months of sinking and crosscutting through barren rock the vein has been found and native silver and rich sulphurets greets the eyes of the persevering workmen. The vein was cut by the crosscut at a distance of 60 feet from the shaft and proved to be 3 feet in width and thoroughly mineralized with rich silver ore. This is especially significant as demonstrating that the Sullivan vein extends continuously for some distance.

The Blanchard Slate Belt.

The great advantages which slate possesses, not only as a roofing material but for a great variety of other purposes, such as curbing, cross-walks, window caps, tiling, mantle-pieces, etc., are too well known to be dwelt upon here, and it only remains for the article to be placed upon the market in sufficient quantities to ensure the price being placed within the reach of all, to warrant its coming into general use.

We believe that the State of Maine is destined to become the great slate producing district of the country if not of the world, for the deposits here are not only inexhaustible, but are unsurpassed in quality by any of the slates (either native or foreign) at present in use, if indeed, they are not superior to all; and furthermore the facilities for quarrying and preparing for market are unsurpassed.

Of the numerous slate deposits in this State none are more

ATLANTIC COPPER MINING CO.,
Blue Hill, Me. Incorporated, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President, Hon. F. M. Laughton, Bangor; Treasurer, Wm. P. Hubbard, Bangor; Secretary, C. F. Bragg, Bangor; Directors, F. M. Laughton, Bangor, F. W. Hill, Bangor, C. P. Dixon, N. Y., C. F. Bragg, Bangor, H. C. Martin, Brunswick, David H. Smith, Winterport, Capt. John Humphrey, Boston.
E. M. LE PROHON, Supt.

AMMONOOSUC COPPER MINING CO.,
Bath, Grafton County, N. H. Incorporated under the laws of the State of Maine, Dec. 1879.
Capital Stock, \$500,000; Shares, \$10 each; Treasury Fund, 10,000 Shares.
President, Edmund Dana, Jr., Portland; Secretary and Treasurer, George S. Winn, Portland; Directors, Edmund Dana, Jr., John S. Morris, E. L. O. Adams, all of Portland.
Office of Company, 22 Exchange Street, Portland, Me.
E. L. O. ADAMS, Manager.

ASHLEY SILVER MINING CO.,
Sullivan, Me. Incorporated, July, 1879.
Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.
President, J. R. Grose, Boston; Treasurer, Thomas Dalby, Boston; Secretary, Wendell Horne, Sullivan; Directors, J. R. Grose, Thomas Dalby, J. W. Tuttle, Wendell Horne, J. Farwell, Jr.
WENDELL HORNE, Supt.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

ANDROSCOGGIN ACTON SILVER MINING CO.,
Acton, Me. Organized March 1880.
Capital stock \$500,000; 100,000 shares, par value \$5 each, full paid, unassessable.
President, E. T. Gile, Esq.; Treasurer, Hon. Geo. C. Wing; Secretary, Milton F. Ricker; Directors, E. T. Gile, Esq., Hon. Geo. C. Wing, Hon. Charles E. Smith, Seth M. Carter, Thomas Littlefield, Mayor of Auburn.
Office 7½ Lisbon St., Lewiston.

BISBEE COPPER MINING & SMELTING CO.,
Blue Hill, Me. Incorporated, June, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.
President and Treasurer, D. H. Bisbee, Camden; Secretary, Hon. S. L. Milliken, Belfast; Manager, A. I. Brown, Blue Hill; Directors, D. H. Bisbee, S. L. Milliken, Isaac Coombs, Arthur I. Brown, W. E. Grindle.
JAMES MITCHELL, Manager.

BAY VIEW SILVER & COPPER MINING CO.,
Blue Hill, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 50,000 Shares.
President, Wm. T. Pearson, Bangor; Vice President, John S. Jenness, Bangor; Treasurer, Edward B. Nealley, Bangor; Secretary, John R. Mason, Bangor; Directors, Wm. T. Pearson, John S. Jenness, Chas. Woodman, E. C. Hinckle, John R. Mason, Ezra L. Sterns.
W. A. PEARSON, Supt.

BULLION MINING AND MILLING COMPANY,
Acton, Me.
Capital, \$150,000, in 15,000 shares; par value, \$10; Treasury Fund, 5000 shares.
Office, Woodbury & Moulton, Bankers, Portland.
President, George P. Wescott; Secretary and Treasurer, W. K. Neul; Directors—George Burham, Jr., Hanson Gregory, Jr., Rockland; Henry S. Osgood, Charles P. Mattocks, George P. Wescott, Frank L. Bartlett, John S. Morris, Portland.
J. W. DOUGLASS, Supt.

BUCKSPORT SILVER MINING COMPANY,
Bucksport, Me., on the Snow vein.
Capital, \$500,000. Shares \$5 each. Treasury Stock, 30,000 Shares, unassessable.
President, J. H. Douglass, Bucksport; Vice-President, C. J. Cobb, Bucksport; Secretary, Edwin P. Hill, Bucksport; Treasurer, Rufus H. Emery, Bucksport.
Directors, J. H. Douglass, Rufus H. Emery, Lewis Bending, A. H. Genu, A. V. Partridge, Joshua A. Whitmore, M. A. Parker.

CONSOLIDATED ACTON SILVER MINING CO.,
On the Acton Lode, Acton, Me.
Capital, \$1,200,000; 240,000 Shares. Par value, \$5. Non-assessable.
President, George P. Wescott; Vice President, John S. Morris; Secretary, Charles D. Clark; Treasurer, A. A. Dennett. Directors—G. P. Wescott, J. S. Morris, W. F. Milliken, B. Barnes, Jr., James Bailey, Charles McCarthy, Jr., of Portland; Ferguson Humes, of Biddeford; Hanson Gregory, Jr., of Rockland, and Frank B. Brackett, of Boston.
The Consolidated Acton Silver Mining Co. have 2000 feet upon the ore channels in the heart of the great Acton lode.
Offices—22 Exchange St., Portland, Me., and 28 Congress St., Boston, Mass.

CLARK SILVER MINING CO., FRANKLIN
Me. Incorporated, Dec. 1879.
Capital Stock, \$500,000; Shares \$1 each; Treasury Fund, 100,000 shares.
President, Henry L. Murch, Ellsworth; Treasurer, James A. McGown, Ellsworth; Secretary, J. T. Crippen, Ellsworth; Directors—T. H. Mansfield, Portland; Henry L. Murch, Ellsworth; J. T. Crippen, Ellsworth; H. B. Phillips, Ellsworth; Isaac A. Murch, Ellsworth.

CHERRYFIELD SILVER MINING COMPANY,
Cherryfield, Me. Incorporated, Sept., 1879.
Capital, \$400,000; Shares \$10 each. Treasury Fund, 10,000 Shares.
President, Sam'l Campbell, Cherryfield; Treasurer, Judge J. L. Milliken, Cherryfield; Secretary, Hon. Wm. Freeman, Cherryfield; Manager, Francis Worcester, Ellsworth; Directors—William Freeman, Samuel A. Campbell, James A. Milliken.
W. A. LEONARD, Supt.

CONSOLIDATED HAMPDEN SILVER MINING CO., Hampden, Me. Incorporated by special act, February, 1880.
Capital, \$1,000,000; Shares \$5 each; Treasury Fund, 30,000 Shares.
President, Hon. F. M. Laughton, Bangor; Vice-President, Wm. H. Strickland, Bangor; Treasurer, C. E. Hill, Bangor; Secretary, C. F. Bragg, Bangor; Directors—F. M. Laughton, Wm. H. Strickland, Geo. A. Wadley, of Boston, C. F. Bragg, F. W. Hill, J. P. Tucker.
THOMAS CAHILL, Supt.

CANDAGE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Jan., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 25,000 shares.
President, Dr. A. C. Hagerthy, Sedgwick; Treasurer, J. P. Byard, Sedgwick; Secretary, Dr. G. W. Hale, Sedgwick; Directors—Dr. A. C. Hagerthy, J. P. Byard, C. T. Herrick, Sedgwick; W. O. Blaney, Boston; C. H. Closson, Portland; J. S. Candage, J. Candage, Blue Hill.

DEER ISLE SILVER MINING COMPANY,
Deer Isle, Me. Incorporated, Aug., 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 52,000 Shares.
President, Samuel Hanson, Portland; Treasurer, Willard C. G. Carney, Portland; Secretary, Geo. F. Gould, Portland; Directors—Samuel Hanson, Curtis A. Parsons, Willard C. G. Carney, James Sampson.
S. Z. DICKSON, Supt.

DOUGLASS COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 10,000 Shares.
President, Hanson Gregory, Jr., Rockland; Treasurer, Stephen Jennings, Bangor; Secretary, H. B. Darling, Blue Hill; Directors—H. Gregory, Jr., Stephen Jennings, A. C. Hamlin, Wm. D. Swazey, E. C. Arey, Charles Hamlin, Geo. A. Alden.
HENRY L. GREGORY, Supt.

DEERING ACTON SILVER MINING CO.,
Acton, Me.
Capital, \$500,000; in 100,000 Shares; par value \$5.
President, M. G. Palmer; Treasurer, E. D. Eastman; Secretary, M. E. Moore; Directors, Eliphaz Clark, M. D., John S. Morris, James G. Tukey, M. G. Palmer, E. D. Eastman.
Office, 93 Exchange Street, Portland, Me., and Sears Building, Boston.

EAST BLUE HILL GOLD & SILVER MINING CO.,
East Blue Hill, Me. Incorporated, Dec. 1879.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, W. C. Collins, M. D., Bucksport; Treasurer, Leander Hancock, Bucksport; Secretary, O. P. Cunningham, Bucksport. Directors—James Emery, Dr. George H. Emerson, George W. Collins, Dr. W. C. Collins, O. P. Cunningham.
GEO. W. COLLINS, Supt.

EDGEMOGGIN SILVER MINING COMPANY
Sedgwick, Me. Incorporated June, 1877; reorganized Oct., 1879.
Capital, \$500,000; Shares, \$10 each.
President, Capt. Chas. Deering, Cape Elizabeth; Treasurer, Alfred Haskell; Secretary, John S. Morris, Portland; Directors, Capt. Chas. Deering, A. F. Currier, S. D. Leavitt, H. W. Sargent, Wm. K. Page.
Office of Company, 22 Exchange Street, Portland, Me. Boston office, No. 7 Exchange Place. W. H. McClintock & Co., Transfer Agents.
J. W. REVERE, Supt.

ELDORADO SILVER MINING CO.,
Acton, Me. Incorporated, Feb. 1880.
Capital \$500,000; Shares \$5 each, unassessable.
President, M. S. Gibson, Portland; Treasurer, C. D. B. Fiske, Portland; Secretary, N. S. Gardiner, Portland; Directors, J. C. Small, J. W. Deering, C. J. Chapman, M. S. Gibson, C. D. B. Fiske, F. T. Meagher.
Office of Company, 93 Exchange St., Portland, Me.

EASTERN STAR SILVER MINING CO.,
Ellsworth, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares, \$1 each.
President, Hon. A. Webb, Bangor; Treasurer, Joseph K. Mayo, Bangor; Secretary, Gordon Stanford, Bangor; Directors, A. Webb, A. F. Smith, J. W. Milliken, Owen McCann, John A. Freese, George Sweetser, Chas. H. Dennett.

EXCELSIOR COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1880.
Capital \$500,000; Shares \$5 each. Treasury Fund 36,000 shares.
President, S. S. Marble, Waldoboro; Treasurer, N. M. Mathews, Belfast; Secretary, W. G. Frye, Belfast. Directors, S. S. Marble, D. H. Bisbee, Geo. F. Wood, Axel Hayford, N. M. Mathews, Robert Patterson, L. A. Knowlton.
JAMES MITCHELL, Supt.

EUREKA SILVER MINING COMPANY,
Lamoine, Me. Offices at Ellsworth. Incorporated, March, 1880.
Capital \$500,000; Shares \$5 each; Treasury Fund, 40,000 shares.
President, Geo. W. Fiske, Ellsworth; Treasurer, Lewis Friend, Ellsworth; Secretary, M. Gallert, Ellsworth; Directors, Geo. W. Fiske, Lewis Friend, Owem Byrn, A. A. Bartlett, of Ellsworth, Hiram S. Bartlett, Lamoine.
HIRAM S. BARTLETT, Supt.

FARNHAM SILVER MINING CO.,
St. Albans, Me. Incorporated, March, 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.
President, E. H. Nealley, Monroe; Treasurer and Secretary, G. F. Harriman, Belfast; Directors, E. H. Nealley, Monroe, Geo. F. Harriman, Belfast, M. Chase, Brooks, J. H. Gordon, Brooks, F. F. Favor, Boston, John Atwood, Boston, E. C. Arey, Winterport.
CHAS. E. LANE, Brooks, Supt.
D. N. EWELL, Frankfort, Transfer Agent.

FAVORITE COPPER MINING COMPANY,
Blue Hill, Me. Incorporated Feb., 1880.
Capital, \$500,000; Shares, \$5 each.
President, A. E. Herrick, Blue Hill; Vice-President, H. A. Tripp, Blue Hill; Treasurer, H. B. Darling, Blue Hill. Directors, A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Charles A. Barrett, E. M. Hersey, I. S. Emery.
C. A. BARRETT, Supt.

FRANKLIN SILVER MINING COMPANY,
Franklin, Me. Incorporated, Feb., '80.
Capital, \$500,000; Shares \$5 each.
President, E. H. Greeley; Treasurer, Edward Mullan; Secretary, E. E. Brady; Directors—E. H. Greeley, N. P. Doe, Edward Mullan, Richard Laffan, Jeremiah Wooster.

FORT KNOX SILVER MINING CO.,
Prospect, Me. Incorporated, Jan. 1880.
Capital, \$500,000; Shares \$5 each.
President, Wm. H. Fogler, Belfast; Treasurer, T. B. Grant, Prospect; Secretary, John F. Libbey, Prospect; Directors, Wm. H. Fogler, T. B. Grant, A. R. Fellows, B. S. Grant, James H. Douglass.
A. R. FELLOWS, Supt.

FANEUIL HALL & SULLIVAN MINING CO.
Incorporated Feb., 1880.
Capital, \$500,000, divided into 100,000 shares, forever unassessable.
Maine office, Ellsworth. Treasurer's office, 107 Faneuil Hall Market, Boston.
President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Farnum, F. W. Morrill and F. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me.
A. A. HAYWARD, Supt.

GRANGER COPPER MINING COMPANY,
Blue Hill, Maine.
Capital \$500,000. Shares \$5 each. Treasury fund 40,000 shares. Present price \$2.
President, Henry N. Stone, Boston; Treasurer, Dexter H. Follett, Boston; Secretary and Superintendent, Brownell Granger, Blue Hill. Directors, Geo. G. Wilder, Sampson Warren, C. R. Aldrich, Geo. H. Smith.
Office, No. 1 Pemberton Square, Room 4, Boston.
BROWNELL GRANGER, Supt.

GARDNER MOUNTAIN COPPER MINING CO,
Littleton, N. H. Incorporated under laws of Maine, Dec. 1879.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 30,000 Shares.
President, Samuel Atwood, Winterport, Me.; Treasurer, Henry T. Sanborn, Winterport, Me.; Secretary, Water Haley, Winterport, Me.; Directors, Samuel Atwood, Hanson Gregory, Jr., E. C. Arey, Walter Haley, Henry T. Sanborn, John Atwood, G. B. Putnam.

GLOBE SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares \$5 each; Unassessable; Treasury Fund, 20,000 Shares.
President, O. H. Perry of Boston; Treasurer, Geo. A. Gibson of Boston; Secretary, E. G. Johnston of Sullivan; Directors—O. H. Perry, G. A. Gibson, E. G. Johnston and Geo. W. Pettengill.

GRANT SILVER MINING COMPANY,
Hancock, Me. Incorporated, Aug., 1879.
Capital, \$400,000, Shares 10 each.
President, H. M. Hall, Ellsworth; Treasurer, Geo. W. Fiske, Ellsworth; Secretary, E. K. Hopkins, Ellsworth; Directors—Henry M. Hall, Geo. W. Fiske, E. K. Hopkins, Robert Mullan, E. F. Reed.

GOULDSBORO SILVER MINING COMPANY,
Gouldsboro, Me. Incorporated, June, 1879.
Capital, \$400,000; Shares, \$10 each; Treasury Fund, 5000 Shares.

President, Judge A. P. Wiswell, Ellsworth.
Treasurer, Charles C. Burrill, Ellsworth. Secretary,
J. B. Redman, Ellsworth. Directors—A. P. Wiswell, C. C. Burrill, Eugene Hale.
W. I. VALENTINE, Supt.

HAGAN SILVER MINING COMPANY,
Hancock, Me. Incorporated, Dec., 1879.
Capital, \$500,000; Shares, \$5 each.

President, Dr. Alex. Fulton; Treasurer, S. J. Morrison; Secretary, Geo. W. Fiske; Directors—Dr. Alex. Fulton, Dr. L. W. Hodgkins, D. M. Stuart, J. T. Crippen, S. J. Morrison.

JACKSON GOLD MINING AND MILLING CO.,
Jackson, Me. Office at Brooks, Me. Incorporated, April, 1880.

Capital, \$500,000. Shares, \$5.00 each. Treasury Fund, 40,000 shares.

President, Geo. B. Ferguson, Belfast; Treasurer, Albert Gammon, Belfast; Secretary, T. I. Huxford, Brooks. Directors—Geo. B. Ferguson, Albert Gammon, Belfast; Joseph Ham, Jackson; John H. Gordon, M. Chase, J. I. Watts, I. S. Staples, Brooks; E. H. Nealley, Munroe; J. Cary French, Colorado.
C. E. LANE, Supt.

JERSEY COPPER MINING COMPANY,
Blue Hill, Maine.

Capital, \$500,000. Shares, \$5 each. Fully paid and unassessable. Treasury fund, 30,000 shares.

Eugene M. Hersey, Bangor, President; Paris G. Merrill, Blue Hill, Vice President; H. A. Tripp, Blue Hill, Secretary; Isaac Merrill, Blue Hill, Treasurer.

Directors—Eugene M. Hersey, Bangor; Paris G. Merrill, Blue Hill; Henry W. Sargent, Sargentville; Wm. D. Swazey, Bucksport; Wm. H. Darling, Blue Hill; Geo. W. Clay, Blue Hill; Joseph H. Johnson, Blue Hill; J. Edwin Dutton, Blue Hill; J. S. Condon, Orland.
TIMOTHY O'CONNELL, Supt.

LAWRENCE SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares, \$1 each; Treasury Fund, 100,000 Shares.

President, John S. Jenness, of Bangor; Vice President, Jacob Stern, Bangor; Acting Treasurer, Wm. E. Brown, Bangor; Sec'y, Wm. E. Brown, Bangor; Directors—Wm. H. Darling, John S. Jenness, Hiram B. Williams, W. Oscar Arnold, Jacob Stern, Manley G. Trask, Geo. W. Sweetser.
GEO. D. HOLT, Supt.

LEBANON-ACTON SILVER MINING COMPY,
Acton, York County, Me. Incorporated, Feb., 1880.

Office—29 Exchange, corner Milk Street, Portland, Me.

Capital, \$500,000; 500,000 Shares; Par Value, \$1 each; Stock unassessable. 100,000 shares in the Treasury.

President, Hugh J. Chisholm; Treasurer, A. P. Leighton; Secretary, D. F. Emery, Jr.
GARDNER FLOYD, Supt.

LADY ELGIN COPPER MINING COMPANY,
Blue Hill, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Rodliff, of Boston; Arthur S. Newman, of Portland. Roderick H. Candage, of Blue Hill.
WM. A. PEARSON, Supt.

LITTLE SUE SILVER MINING COMPANY,
Lamoine, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares \$1 each.

President, H. B. Mason; Secretary and Treasurer, Dr. L. W. Hodgkins, Ellsworth; Directors—H. B. Mason, Dr. L. W. Hodgkins, B. O. Cutter, Dr. K. H. Swett, James W. Davis.

MILLBROOK SILVER MINING COMPANY,
Sullivan, Maine. Incorporated, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 20,000 Shares.

President, L. Foster Morse, Boston. Treasurer, Thomas Dalby, Boston. Secretary, Sidney E. Horne, Sullivan. Directors—L. F. Morse, Sidney E. Horne, James R. Grose, Thomas Dalby, Edward Worcester.
SIDNEY E. HORNE, Supt.

MINERAL HILL MINING COMPANY,

Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.

President, D. H. Smith, Winterport; Treasurer, A. E. Fernald, Winterport; Secretary, Walter Haley, Winterport; Directors—D. H. Smith, Winterport; E. C. Arey, Winterport; John Pierce, Frankfort; W. G. Frye, Belfast; John Atwood, Boston; Walter Haley, Winterport; vacancy.
Office 2 Commercial Street, Winterport, Me.

MILTON MINING AND MILLING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office, 4 Sears Building, Boston.

President, J. D. Prescott, of Boston, Mass.; Secretary, W. O. Arnold of Bangor, Me.; Treasurer, G. E. Harrington of Salem, Mass.

Capital Stock, \$500,000—100,000 Shares par value \$5 each. Unassessable. J. SHOENBAR, Supt.

MCFARLAND SILVER MINING COMPANY,
Hancock, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

MORANCY MINING COMPANY,
Sullivan, Me. Incorporated, Jan., 1880.

Capital, \$500,000; Shares \$5 each.

President, Guy W. McAlister, Bucksport; Treasurer, A. C. Swazey, Bucksport; Secretary, F. H. Moses, Bucksport; Directors—G. W. McAlister, J. H. Douglass, A. C. Swazey, Enoch B. Hill, F. H. Moses, E. A. Mansfield, Jr., Edward Swazey.
F. W. CROSBY, Supt.

NOROMBEGA SILVER MINING COMPANY,
Hampden, Me. Incorporated, Jan., 1880.

Capital Stock, \$500,000; Shares, \$5 each; Treasury Fund, 36,000 Shares.

President, J. S. Ricker, Bangor; Vice-President, J. W. Milliken, Bangor; Treasurer, W. P. Hubbard, Bangor; Secretary, E. H. Dakin, Bangor; Directors—J. S. Ricker, J. W. Milliken, W. H. Darling, N. E. Bragg, Geo. F. Dillingham, Geo. J. Fowler.
MOSES W. EMERY, Supt.

NEW ST. ALBANS SILVER MINING AND SMELTING CO., St. Albans, Me. Incorporated, April, 1880.

Capital, \$500,000. Shares, \$5.00 each.

President, M. Chase, Brooks; Treasurer and Secretary, John H. Gordon, Brooks. Directors—M. Chase, John H. Gordon, G. A. Libby, Brooks; D. H. Smith, Winterport; D. N. Ewell, Frankfort; Irving Rice, Bangor; D. W. Keyes, Boston.
C. E. LANE, Brooks; Supt.

PETT MENAN SILVER MINING COMPANY,
Pett Menan Point, Steuben, Me. Incorporated, Aug., 1879.

Capital, \$400,000; Shares \$10 each; Treasury Fund, 10,000 Shares.

President, E. H. Greeley, Bar Harbor; Treasurer, L. B. Wyman, Ellsworth; Secretary, J. E. Redman, Ellsworth; Directors—E. H. Greeley, J. W. Davis, L. B. Wyman, W. C. Ricker.
A. S. JARVIS, Supt.

QUEEN CITY SILVER MINING COMPANY
Bangor, Me. Incorporated, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President—Dr. H. F. Hanson, Bangor. Vice-President, J. S. Ricker, Bangor. Treasurer, Chas. Hight, Bangor. Secretary, W. J. Patten, Bangor. Directors—Dr. H. F. Hanson, J. F. Parkhurst, Lyander Palmer, J. W. Thompson, George F. Dillingham.

ROBERT EMMETT SILVER MINING CO.,
Egypt Bay, Hancock, Me. Incorp, July, 1879.

Capital, \$400,000; Shares, \$10 each; Treasury Fund, 40,000 Shares.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

REVERE SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund \$20,000 cash, 30,000 shares.

President, F. O. Beal, Bangor; Treasurer, Wm. E. Brown, Bangor; Secretary, Wm. L. Johnson, Bangor; Directors—F. O. Beal, W. J. Webb, Geo. W. Knight, Ezra L. Sterns, Hon. F. M. Laughton, A. H. Thaxter, B. B. Thatcher, Bangor; A. H. Kendall, Boston, A. R. Joy, Ellsworth.
WILKIE DARLING, Supt.

SWAN MINING COMPANY,
Franklin, Hancock County, Maine.

Capital, \$500,000; Shares, \$5 each; Treasury Fund 40,000 Shares, preferred stock.

President, James Adams, Bangor; Secretary and Treasurer, G. S. Bean, Bangor; Directors—James Adams, E. J. Swan, M. G. Trask, C. C. Burrill, E. C. Nichols.
E. J. SWAN, Supt.

STOVER HILL COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, April, 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 23,000 Shares.

President, J. S. Ricker, Bangor. Treasurer and Secretary, Wm. P. Hubbard, Bangor. Directors—J. S. Ricker, Bangor; N. E. Bragg, Bangor; F. M. Laughton, Bangor; Melvin Preble, Bangor; Geo. Brooks, Orrington; W. H. Darling, Blue Hill; Thomas White, Bangor.
ROBERT O'ROURKE, Supt.

SULLIVAN SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, April, 1878.

Capital, \$500,000; Shares, \$10 each; Unassessable; Treasury Fund, 30,000 Shares.

President, Geo. B. Brown, Boston; Secretary, B. P. Tilden, Sullivan; Treasurer, F. R. Nourse, Boston; Directors, Geo. B. Brown, Joseph G. Russell, Francis A. Osborn, Edward D. Hayden, Chas. F. Farrington.
B. P. TILDEN, Supt.

SILVER REEF SILVER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 40,000 Shares.

President, W. P. Hubbard, Bangor; Treasurer, J. S. Ricker, Bangor; Secretary, C. F. Bragg, Bangor; Directors—W. P. Hubbard, J. S. Ricker, C. F. Bragg, N. E. Bragg, F. W. Ayer, E. B. Smith, H. M. Bartlett.

SULLIVAN FALLS MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Incorporated, March, 1880.

Capital, \$500,000; Shares \$5 each.

President, Judge A. P. Wiswell, Ellsworth; Treasurer, C. C. Burrill, Ellsworth; Secretary, J. B. Redman, Ellsworth; Directors, Hon. Eugene Hale, C. C. Burrill, A. P. Wiswell.
W. H. CLAPHAM, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

TWIN-LEAD COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Dec., 1879.

Capital, \$500,000; Shares, \$5 each; Treasury Fund, 30,000 Shares.

President—E. M. Hersey, Bangor. Vice-President, Frank P. Wood, Bangor. Treasurer, John S. Jenness, Bangor. Secretary, John R. Mason, Bangor. Directors—E. M. Hersey, Frank P. Wood, Charles Duff, J. S. Ricker, Samuel Sterns, James Littlefield, Wm. Swazey.
CHARLES DUFF, Supt.

TRIO SILVER MINING COMPANY,
Mine at Blue Hill. Offices, Bangor.

Capital, \$500,000. Shares, \$5. Treasury, 25,000 shares stock, and \$3000 cash.

President, Geo. R. Lancaster; Secretary, J. W. Milliken; Treasurer, A. H. Thaxter. Directors—B. B. Thatcher, Geo. R. Lancaster, F. O. Beal, J. W. Milliken, N. H. Bragg, I. S. Emery, Bangor; W. D. Swazey, Bucksport; W. H. Darling, R. G. W. Dodge, Blue Hill.
ARTHUR HUNT, Acting Supt.

WAUKEAG SILVER MINING COMPANY,
On the Sullivan Lode, Sullivan, Me. Office No. 4 Sears Building, Boston.

President, B. S. Grant, of Boston, Mass.; Secretary, W. O. Arnold, of Bangor, Me.; Treasurer, Geo. E. Harrington, of Salem, Mass.; Directors, B. S. Grant, G. G. Barker, Chas. H. Lewis, Geo. E. Harrington, W. E. Connor, L. Foster Morse, C. P. Weston. Capital stock \$500,000—50,000 shares, par value \$10 each. Unassessable.
B. P. TILDEN, Supt.

WESTERN UNION SILVER MINING CO.,
Hancock, Me. Incorporated, Jan., 1880.

Treasury Fund, 30,000 Shares.

Capital, \$500,000; Shares \$5 each.
President, Chas. I. Collamore, Bangor; Secretary and Treasurer, Harry C. Bliss, Bangor; Directors—Chas. I. Collamore, Alonzo Packard, Colin McKenzie, C. S. Hall, Ruel Smith.
Office—Bangor, Maine.

WEST AND SOWLE MINING COMPANY,
On the Gouldsboro Lode, Gouldsboro, Me.

Office, Ellsworth, Me. Incorporated, Feb., 1880.

Capital \$500,000; Shares \$5 each, unassessable; Treasury Fund, 32,000 Shares.

President, Joseph H. West, Franklin; Treasurer, H. B. Saunders, Ellsworth; Secretary, E. F. Robinson, Ellsworth; Directors—Joseph H. West, H. B. Saunders, John D. Hopkins, J. F. Whitcomb, E. F. Robinson, A. R. Devereux, Jas. W. Davis.

YOUNG HECLA COPPER MINING COMPANY,
Blue Hill, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor; Vice-President, Charles Hamlin, Bangor; Treasurer, John R. Mason, Bangor; Secretary, W. F. Seavey, Bangor; Directors—John S. Jenness, Charles Hamlin, Samuel R. Prentiss, Wm. D. Swazey, William H. Darling, James W. Davis.
CHARLES DUFF, Supt.

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JOHN LINDSEY.....PROPRIETOR.

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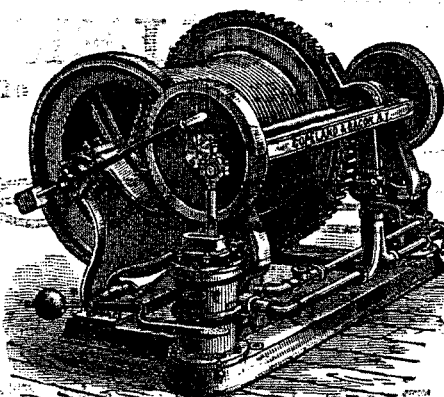
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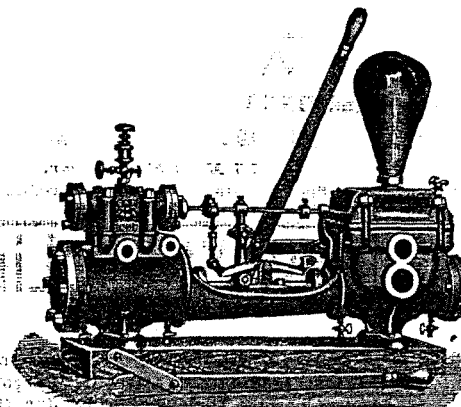
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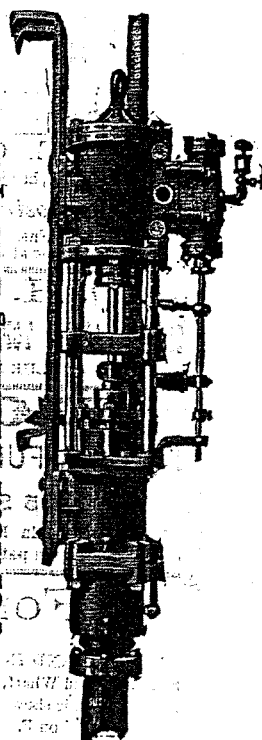
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